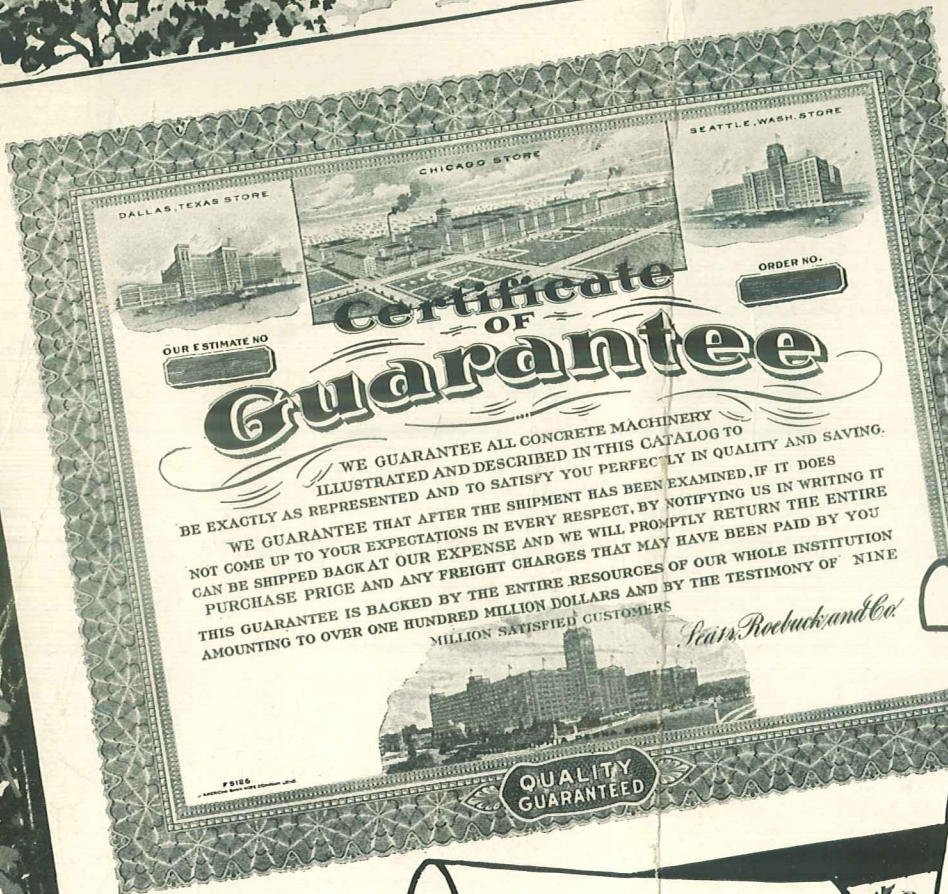




CONCRETE MACHINERY

Sears, Roebuck and Co.
Chicago **Philadelphia**

This Guarantee Protects You.



USED SEVEN YEARS - GOOD AS EVER

Hancock, Mich.

Sears, Roebuck & Co.

Gentlemen: This is to advise you that the Concrete Mixer purchased from you is excellent. We would not be without it. The engine as well as the mixer are both first class. The machine has been in use for about seven years, and is as good as ever.

Yours very truly,

QUINCY SMELTING WORKS

Alex Lait,
Superintendent.

AL-MK

PAYS FOR ITSELF ON FOUR JOBS.

Saltillo, Pa.

Sears, Roebuck & Co.

Gentlemen:- We wish to say a word regarding the Ellis Concrete Mixer purchased from you over a year ago.

We used this machine last Summer, for building a concrete breast dam, and three foundation walls, and figure that the machine paid for itself on these jobs.

We kept a little tab on breast dam and can give you a few figures:

A wall 80 ft. long, 7 ft. high with an average width of about 3-1/2 ft. Five men completed this job, with your mixer in just one and one half days.

We don't think this record can be excelled with even more men and a larger mixer. Our men worked and so did the mixer.

Yours truly,

Weaver & Crottsley.

ONE MAN MAKES 200 BLOCKS PER DAY.

Boaz, Ala.

Sears, Roebuck & Co.,

Dear Sirs;

In regard to our Wizard Block Machine, we are well pleased with it. We used three different machines last year and like the one we got from you the best of all. It is the most convenient machine I have ever seen. We have a man that turns out 200 blocks every day, doing his own mixing, and yarding by himself.

Yours truly,

WELLS & RODEN



GUARANTEED Concrete Machinery Designed for Hard Service



TWENTY-TWO years ago this January marked the beginning of our successful career as specialists in the marketing of HIGH GRADE concrete machinery. During these twenty-two years it has been our aim to offer a line of Concrete Machinery that will give you the SERVICE YOU HAVE THE RIGHT TO EXPECT, with the smallest

expense of upkeep. Our descriptions will be found accurate, both as to quality and capacity of all machinery. Our customers can rely on the truthfulness of all statements we make. If in any respect the line of machinery does not come up to the descriptions—or if we have failed to save you money—or if you are not pleased with your purchase—return the machinery, and the amount you paid us, together with freight charges, will be promptly returned. OUR customers take no risk (see guarantee on opposite page).

By glancing over the pages of this catalog, you will find every kind of equipment for making large or small concrete structures in the "most modern way." It also includes machinery for making silos, fence posts and other articles required on the farm.

Old types of machinery have been discarded—new, improved designs have been given their place. Weaknesses that have developed have been eliminated. Our engineers have proved beyond a doubt that each machine is the most efficient in its respective class.

SEARS, ROEBUCK AND CO.

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Concrete Products and Concrete Machinery

For the Manufacturer, the Building Contractor, the Farm Owner and the Home Builder.

"Concrete for Permanence" is the slogan adopted by all concrete contractors and cement product manufacturers. As the Pyramids of Egypt have defied the elements for thousands of years, so will concrete of the proper consistency, made with the proper machinery. More and more concrete is replacing other types of construction, until today it is one of the main lines of the building industry.

Advantages of Concrete Construction

There are many reasons why concrete should be used for building in preference to any other material, but we mention only a few of them here.

COST—Usually the first thing considered when figuring on a building is the cost of it. Concrete will cost less than stone or brick and in many localities less than frame construction. When repairs, painting expense and cost of insurance are figured, concrete is the cheapest when cost at the end of five years is considered.

FIREPROOF; LOW INSURANCE RATES—Concrete construction, whether of block, brick or poured in forms, is fireproof. This is a strong feature, particularly in small towns where there is little or no fire protection. Fire insurance rates on a concrete building are from one-third to one-half lower than on frame construction.

REDUCES MAINTENANCE. Unlike any other type of construction, concrete improves with age and requires no painting and practically no repairs, even after being in use for several years.

COOL IN SUMMER; WARM IN WINTER—Buildings constructed of concrete blocks, on account of the usual air space in the blocks acting as a non-conductor of heat, are cooler in summer time, and warmer and less costly to heat in winter time.

DRY AND DAMP PROOF—By waterproofing the cement used in the facing of the concrete blocks, this type of construction can be made dry and damp proof.

Concrete Products

One of the most promising business opportunities of today, requiring little experience or capital, is that of concrete products manufacturing.

EXPERIENCE IS NOT NECESSARY—For the benefit of those who have not handled concrete before, we furnish our simple instructions in our free booklet, "Concrete Products and How to Make Them." To make concrete products—Portland cement, sand and gravel or crushed stone are mixed together in certain proportions—usually one part cement, two parts sand and four parts gravel or crushed stone. This mixture is then moistened, mixed and tamped in the mold or machine. The mold or machine is immediately opened and the product left standing where made and the mold removed, or the product is carried from the machine on a plate or board called a pallet. The product is sprinkled with water once or twice a day for several days, to thoroughly harden or cure it, and is then put into use.

WE WILL SEND YOU FREE of charge our Information Book on "Concrete Products and How to Make Them," which not only tells you how to mix concrete, but tells you how to test and select the best materials for the purpose, how to lay or set the various products, how to figure the cost of the various products, and many other items of interest to the man in this business.

WE MAINTAIN A FREE SERVICE DEPARTMENT that is always ready to advise you and give you any information. We have a concrete expert, a graduate engineer, who will gladly answer all questions and will solve your problems, no matter how large or small.

GOOD PROFITS—Every community needs a cement products manufacturer, who will manufacture cement blocks, concrete brick, fence posts and other concrete necessities. As compared to the market price of the finished cement product, the cost of the raw materials is very low; with the aid of our high grade machinery one can turn out perfect work and sell it at a good profit.

PLANS—If you will give us an idea of the type of building you contemplate erecting our Service Department will be glad to co-operate with you in securing plans, specifications and bill of material for such a building.

WE SELL TO YOU AT WHOLESALE PRICES—Our comparison with other standard makes convinces us that the **FACTORY PRICES** we quote are from 23 to 40 per cent below prices generally quoted for machinery in its class. Besides, we back each purchase with a guarantee of satisfaction. Test our claim by comparing our **WIZARD CONCRETE MIXER**, illustrated on front cover, with mixers of similar type. On this one item we can save you \$75.00. With a factory that can

produce 10,000 machines a year, with but one profit added to the lowest factory cost—with the jobber and retail dealer's profit and overhead expense eliminated—we can sell you concrete machinery at prices that represent the greatest value for the money.

COST OF MAKING CONCRETE PRODUCTS—The materials required for making concrete products are Portland cement, sand and gravel or crushed stone. Portland cement is usually packed and sold in sacks of 95 pounds. Four sacks are considered a barrel, and a barrel is the unit of measurement, although cement is nearly always put up in sacks. Sand, gravel and crushed stone are usually sold by the cubic yard. In our book of "Concrete Products and How to Make Them" we explain how to test the materials you use so as to ascertain the exact quantity of each part (cement, sand, gravel or crushed stone) required to make an ideal mixture. However, for the purpose of calculation and for all ordinary work, a mixture composed of one part cement, two parts sand and three parts gravel or crushed stone, which is called a 1:2:3 mixture, will answer and will make a first class product.

To make a cubic yard of concrete of 1:2:3 mixture will require:

- 1 1/4 barrels Portland cement.
- 1/2 of a cubic yard of sand.
- 3/4 of a cubic yard of gravel or crushed stone.

These figures are as close as can be given in common fractions, and you will find that as a general rule the amounts specified above will make more than a cubic yard of concrete, and your products will actually cost you less than what you figure they will cost when using our figures as a basis.

The prices of material and labor vary in every locality, so we tell you how much material and labor is required for various products; this will enable you to figure your own costs, which depend on the price of materials and labor in your locality.

Product	Quantity a Cubic Yard of Concrete Will Make	Number Two Men Will Make in 10-Hour Day
8x 8x16-Inch Concrete Blocks.....	72	200 to 250
8x10x16-Inch Concrete Blocks.....	53	190 to 230
8x12x16-Inch Concrete Blocks.....	44	175 to 225
Sill or Cap, 10 inches wide, 8 inches high, 5 feet long.....	10	50
16x16-Inch Chimney Blocks.....	30	100
Porch Column Sections, 10 inches in diameter, 12 inches high.....	50	125

REPAIRS—Realizing the necessity to furnish repairs for machinery promptly, we are in a position to send them to you within twenty-four hours after receiving your order.

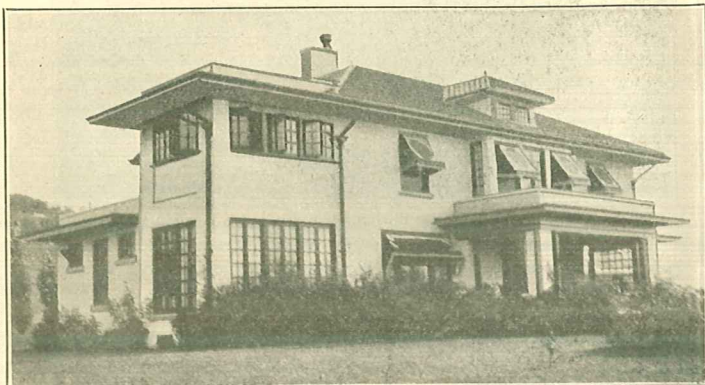
Stucco Plaster on Concrete Blocks

Practical Suggestions for Beautifying Concrete Buildings

If you apply stucco plaster finish to plain faced concrete blocks you can have all the benefits of concrete block construction and the appearance of a high priced building at a small difference in price.

If you build a concrete block house you have your choice of a large variety of designs and color schemes from which to select. Here are a few practical suggestions.

Stucco plaster can be applied directly to the concrete block. This method has proved successful.

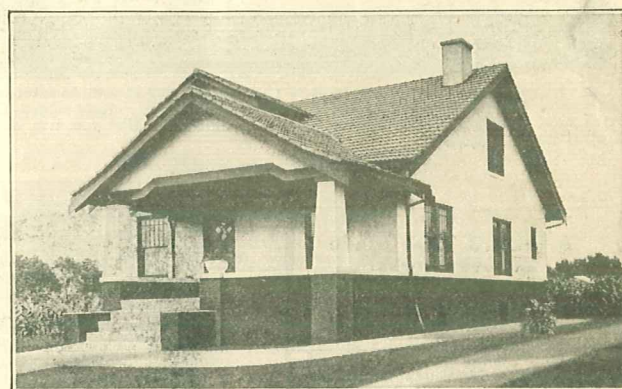


Stucco work costs but a trifle extra when applied to concrete buildings. The ordinary rough block, having one mixture of material throughout, will do. The face of the block is rough and of same consistency as the block and is scratched with a sharp instrument or nail, forming a solid anchor place for the stucco coat. Our book, "Concrete Products and How to Make Them," tells all about it. By this method you save the time required to mix and apply the facing in the machine, also the cost of the extra quantity of cement required for facing. It will cost on an average about 95 cents a square yard for the finishing coat of stucco plaster, which is the only coat required for stucco work, on a concrete block building.

This method has great possibilities for beautifying buildings. You can color or tint the plaster any shade desired by using mineral colors. You can apply it in panels to different parts of the building, making a very

artistic design. You can make the body one color and the trimmings, such as the coping, caps, sills, porch materials, corners, etc., a different color, giving the effect of a painted building, but without the expense of painting. Mineral colors in concrete are everlasting. In addition you can make your building perfectly waterproof by this method.

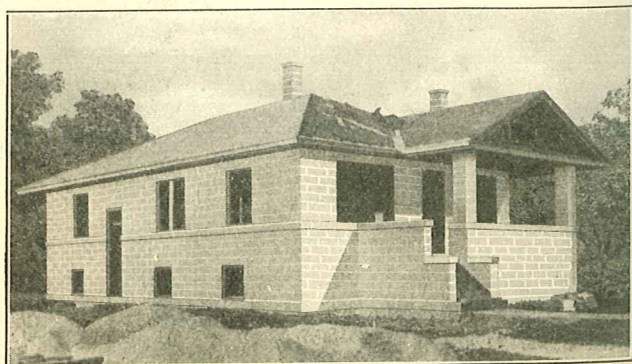
A concrete block building, finished with stucco plaster on the blocks according to our method, is practically everlasting.



Formerly stucco plaster was applied on wood or metal laths, but, as every builder knows, extra coats of plaster were required in order to make it strong enough to prevent cracking. When applied directly on the concrete block all that is required is a finishing coat.

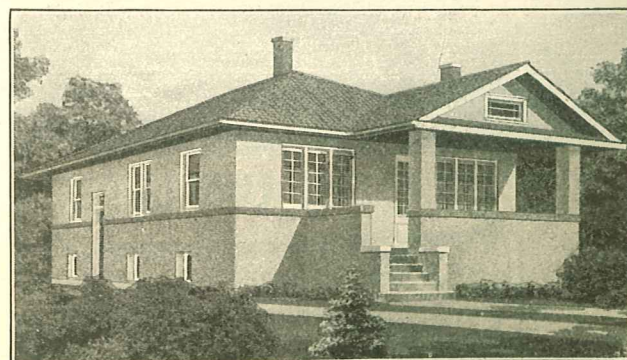
Stucco plaster on a concrete block building gives it the finished appearance of expensive reinforced concrete construction, and saves you the cost of expensive reinforcing, forms and labor.

You can build a house of concrete blocks that will be as practical for all dwelling purposes as any other material, by following out the suggestions we make. The finish and appearance will be as handsome as you can make with any other building material.



BEFORE.

This is a view of a concrete block bungalow all ready for stucco finish. Consider the great strength and durability of this construction.



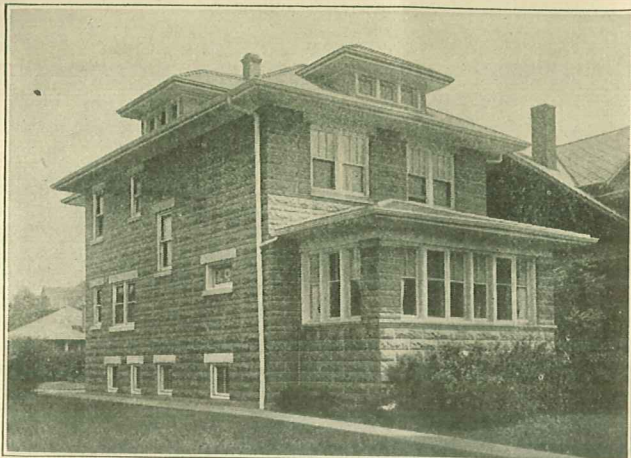
AFTER.

Here is the bungalow after the stucco finish has been applied. A building that is solid and beautiful.

Concrete for Beauty and Permanence

FROM REPRODUCED PHOTOGRAPHS.

It is no longer necessary to build the plain, unattractive concrete block houses with which we are all familiar. With a little effort on the design and very little more expense on the construction, your home can be made as modern and artistic as if constructed of brick or cut stone.



An excellent example of house built of rock face blocks laid up in alternate courses of full size and half size or course blocks. By purchasing a few extra face plates and attachments with your block machine you can build various modern designs.



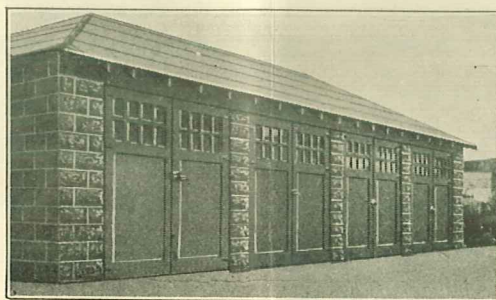
The possibilities of variation in design are unlimited. Here is a substantial home, the first story constructed of panel face blocks faced with white cement, the second story stuccoed over plain blocks and trimmed in white panels.

A Wizard That Made 300,000 Blocks.

Geneva, Ohio.
Sears, Roebuck and Co.

Gentlemen—We operate two of your "Wizard" Machines under automatic tampers. Also one of your Brick Machines under an automatic tamper. It might interest you to know that we average 400 blocks per day per machine. On the brick machine we secure 3,500 bricks per day. The figures are for units of two men per machine. The men do the mixing, making and yarding. One machine purchased from you ten years ago has made over 300,000 blocks.

Yours sincerely,
L. M. SCHROLL.



Concrete at the Cost of Frame.

Dubuque, Iowa.
Sears, Roebuck and Co.
Gentlemen—I am sending you a picture of my garage built with concrete blocks. I tried to buy these blocks here but they wanted \$240.00. So I got one of your Triumph Machines and made the blocks myself evenings and at odd times at a cost of just \$60.00 for material. I had never made a block before but had no trouble in making them. I made a saving of \$180.00, and I still have my machine.

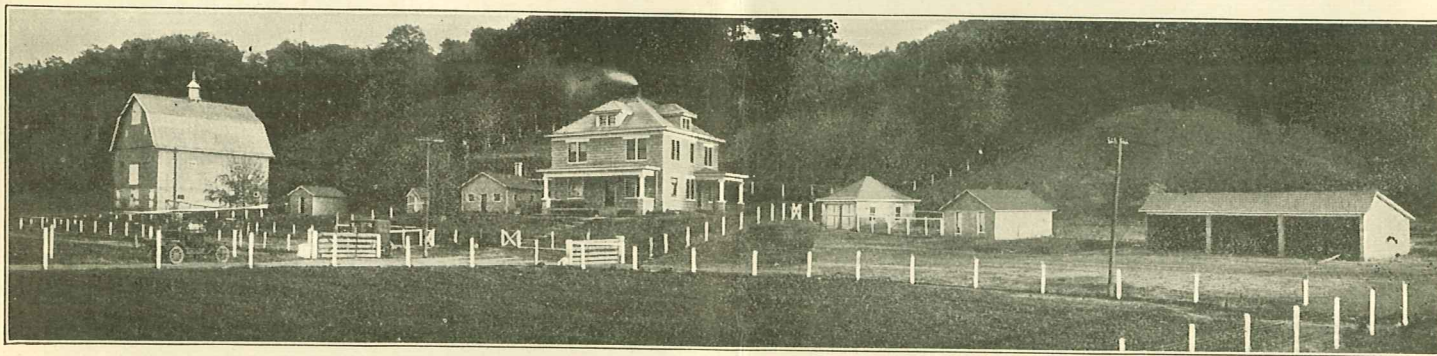
Yours truly,
ELSWORTH WILCOX.

Makes Bricks for \$10.00 per Thousand.

Stamford, Neb.
Sears, Roebuck and Co.

Gentlemen — The Six-Brick Machine has proved all you claimed for it and more. Ordinary clay brick here cost \$16.00 per 1,000. I hire a man to help make brick and, furnishing everything, I make a saving of \$6.00 per thousand. Masons claim they lay more than ordinary brick and easier laying. One man can make 1,000 brick per day.

C. E. LEWIS.



All Buildings of Concrete—Fireproof

Sears, Roebuck and Co.

Metamora, Ill.

Dear Sirs—I would have taken the picture of my farm sooner but had some fences to make. I get eight posts out of a sack of cement, making a post cost only about 25 cents. I will give you an idea of the cost of the buildings. The cost of cement varied considerable. From \$1.00 per barrel to as high as \$4.00 per barrel, but with all of that cement work is the cheapest as well as the best.

The barn is 40x40, with concrete floors and mangers. It stands me \$885.00, by me doing a part of the work. The house cost me \$2,500.00 in war time, an eleven-room house, 30x34. Next to the house is a wash house, 16x20, cement floor. The material cost me \$106.00, all complete. I did the work. The next building is a hen house, 10x16.

The cost of it is \$85.00 complete. On the west is a garage, 20x22, for two cars. The material cost complete, \$145.00. Next to this is another hen house, 20x20, cost me \$110.00. Next is a machine shed, 18x48, cost me, complete as it stands, \$165.00. Of course, I and the boys did the labor. The next building is a hog house, 16x32, cost me \$127.00, complete as it stands, with floors of cement.

Am getting ready to put in foundation for cement corn crib now, 30x32, with elevator. Our first house burned December 31, 1915, so I have taken all to cement, as there won't be near the risk of fire. The parts of cement used averages five to one and six to one in all of the buildings and foundations.

Yours truly,
SOL. WINKLER.

How to Order—Our Terms—Our Guarantee

How to Order.

Use our regular order blank mailed with this catalog or, if you have misplaced it, use any piece of plain paper. Be sure to sign your full name and address plainly so there will be no possible chance for us to make a mistake. If your shipping point is different from your postoffice be sure to give shipping point as well as the postoffice. Give the full catalog number of the machine or mold you wish to buy and send your money by postoffice money order, express money order, bank draft, or currency in a registered letter. If you have a checking account at a bank you may send us your personal check if you find it more convenient. Be sure that your address appears on the envelope in the upper left hand corner and that it is properly addressed to us.

Our Terms.

1—Cash in full with order. You need not hesitate about sending us the full purchase price because, if we do not satisfy you in quality, service and saving, you get your money back without question, together with any freight charges you paid, provided the material is returned.

Ten Days' Trial Allowed.

All machinery is shipped with the understanding that you can give it a thorough trial for ten days, and if you are not perfectly satisfied you may send back the goods to us at our expense and we will return what you paid us for them, together with any transportation charges, so that you will not be out one penny.

Our Guarantee.

We guarantee our machinery to be perfect in material and workmanship and to give satisfaction. We agree to replace without additional charge to the purchaser any machine or part of machine that gives out on account of defect in material or construction.

Repairs.

We furnish repairs without charge if they are made necessary on account of defect in material or workmanship or breakage in shipping. When required to replace parts broken by natural wear or tear or by accident we furnish them at small cost. We will be able to furnish you with repairs any time in the future, so if in years to come you should break your machine you will not have to discard it and get a new one on account of not being able to get repairs.

Shipment.

Repairs are shipped within 24 hours after order is received. All machines are shipped complete direct from factory in OHIO to you. This saves all unnecessary freight and handling expenses.

We Guarantee Safe Delivery.

We guarantee that all merchandise sold by us will be delivered to you in perfect condition. See guarantee opposite page 1.

Directions.

We furnish complete directions for operating every machine or mold, so that even if you have had no previous experience you will be able to understand and operate it thoroughly and turn out the best of products on it.

Expert Service.

If any questions should arise that you do not fully understand, we have an expert to give you any needed information. If anything is not clear to you, you are at perfect liberty to write us and we will see that you get proper attention and the information you need. We are ready at all times to help you in anything pertaining to the concrete product business.



This Valuable Book

Given Away Free With Our Concrete Machinery

What Others Have Done You Can Do

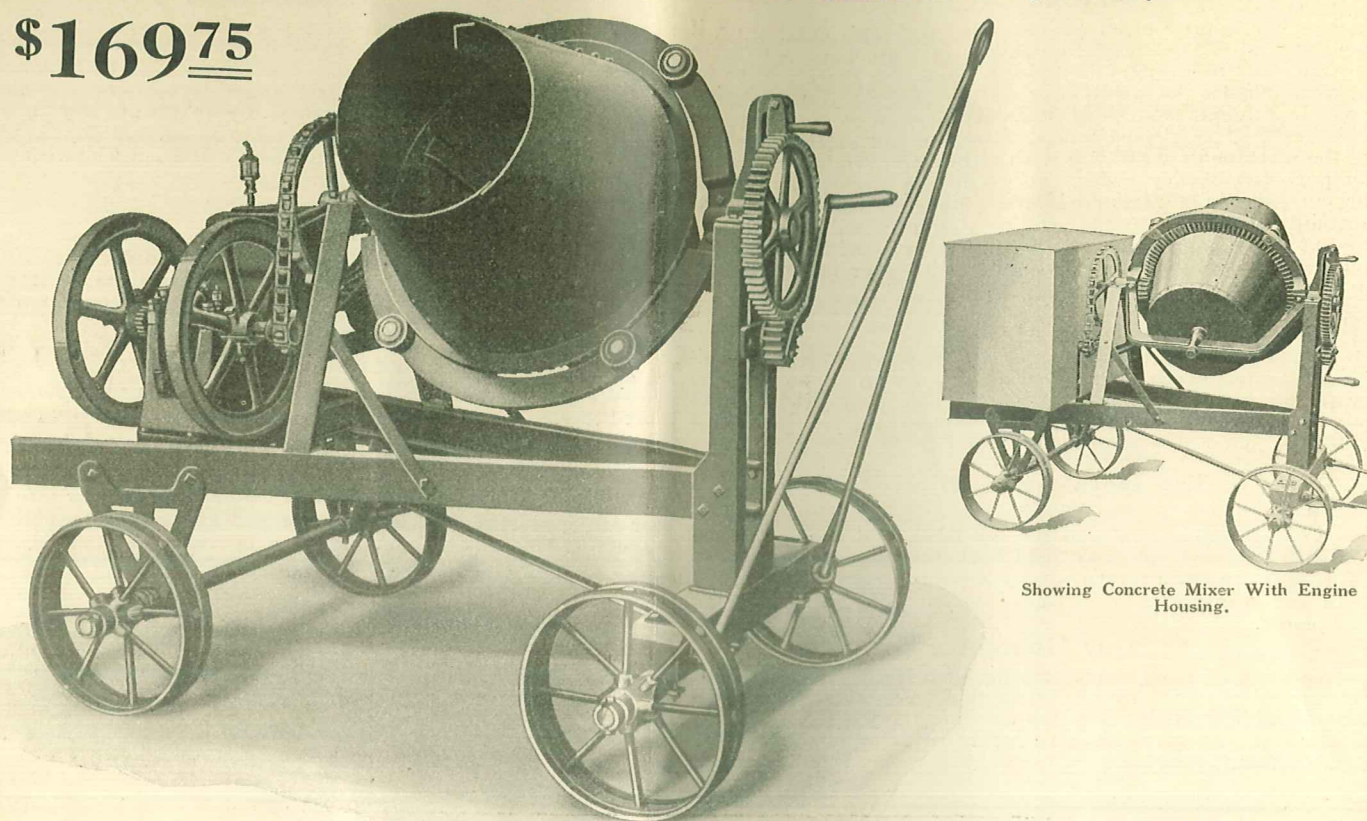
THIS general information book, which we furnish free with our concrete machinery, tells you everything you need know to successfully make concrete products. Furthermore, we will cheerfully answer any questions you may want to ask in reference to this subject, so you may feel doubly sure of making perfect products. The letters and pictures shown throughout this book demonstrate what inexperienced men have done.

We receive a great many orders from our customers who already have this general information book and we therefore furnish the book only when asked for. If you wish a copy please mention in your order that you would like a copy of "Concrete Products and How to Make Them," and it will be included without charge.

Wizard Tilting Drum Concrete Mixer

Four Cubic Foot Capacity. 40 to 50 Cubic Yards per Day

\$169⁷⁵



Showing Concrete Mixer With Engine Housing.

Wizard Tilting Drum Concrete Mixer With Engine.

The Wizard Concrete Mixer is the ideal mixer for the small or medium size job and all contractors who handle miscellaneous concrete construction should own one of these light, inexpensive machines, in addition to their mixers generally used on large jobs. This mixer, being so much easier handled and quickly moved from one job to another, makes a considerable saving in time besides calling for a smaller initial investment, operating expense and upkeep.

FEATURES

MIXING DRUM—The important feature of the Wizard Concrete Mixer is in the taper of the drum, which with the help of three simple and easily cleaned mixing blades on the inside, keeps throwing the material from the mouth and back to the center of the barrel, thereby insuring a thorough mix in the shortest possible time.

THE TILTING DRUM of the Wizard permits loading on one side and discharging on the other side of the mixer. Anyone who has operated one of the old style one-way mixers will appreciate what this means. It permits piling material directly in front of mixer. Not off to one side to permit passage for wheelbarrow into which concrete is discharged. Instead material can easily be shoveled directly into drum and discharged on opposite side; especially convenient for pouring into form work, as the mixer, being light in weight, can be moved along

the forms, loaded on one side and discharged on the other side directly into forms.

ALWAYS IN GEAR—The drum revolves continuously, being always in gear, even during the tilting operation.

POWER AND DRIVE—Equipped with our 2 Horse-Power Economy Engine (a thoroughly dependable motor). The extremely simple drive, consisting of chain and sprockets, and the semi-steel pinion and drive gear insure many years of service.

Constant visibility of mix enables the operator to judge the thoroughness of the mix at all times, a decided advantage where a uniform, thorough mix is a necessity.

Compare our mixers with other machines of this type and capacity, then compare our prices, and we are sure that your next choice of a mixer for your small and medium size jobs will be a Wizard.

SPECIFICATIONS

CAPACITY—4 cubic feet of unmixed material per batch, or 40 to 50 cubic yards per day.

MIXING DRUM measures 33 inches deep by 26 inches in diameter with 17 $\frac{3}{4}$ -inch opening; constructed of steel with a one-piece cast bottom.

TILTING GEARS are a 4 to 1 ratio, making it very easy to tilt the drum when loaded to capacity. Will turn the barrel so that mixer can be loaded on one side and discharged on the other.

TRANSMISSION—Chain drive No. 62, malleable iron, with sprockets and gears of semi-steel. Drive shaft, 1 $\frac{1}{4}$ -inch steel.

POWER—Equipped with our famous 2 Horse-Power Economy Gasoline Engine with built-in magneto, which eliminates the use of batteries and all engine trouble caused by batteries. Our engine is one-third larger than engines generally used on this type and size of mixer.

FRAME constructed of 4-inch steel channels with cast iron standards supporting mixing drum. All bolts fitted with lock washers.

TRUCK WHEELS are all steel, 18 inches in diameter, with cast hub; 3-inch grooved tread. Axles are 1 $\frac{1}{4}$ -inch cold rolled steel.

TRACK—3-foot 8-inch, between wheels.

DIMENSIONS—

Length, over all, 6 feet 7 inches.

Width, over all, 4 feet 2 inches.

Charging height, 3 feet 6 inches.

Discharge height, 22 inches.

ENGINE HOUSING made of heavy steel plate and measures 3 feet 6 inches long by 22 inches wide by 30 inches high and can be removed by loosening four bolts.

63B599 Four Cubic Foot Wizard Concrete Mixer, Complete With Engine. \$169.75

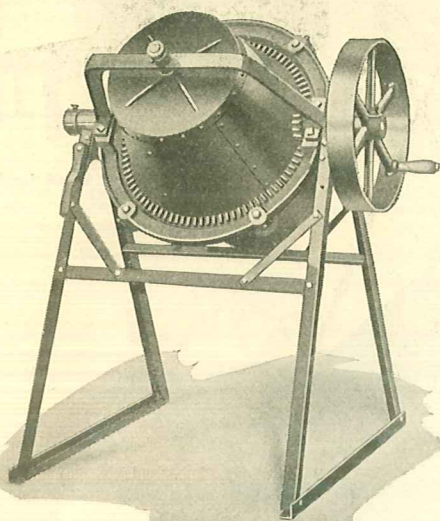
Shipping weight, 1,065 pounds.

ALL MACHINES SHIPPED FROM FACTORY IN OHIO.

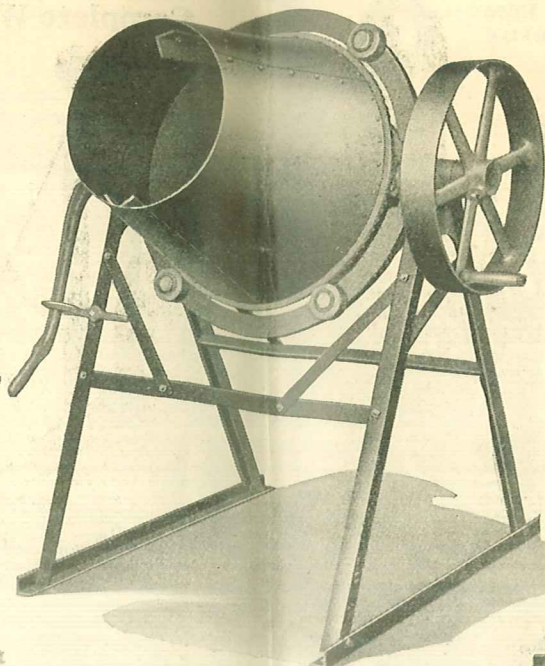
Wizard Concrete Mixer

\$40⁹⁵

3 Cubic Foot Capacity



View of Back in Dumping Position.

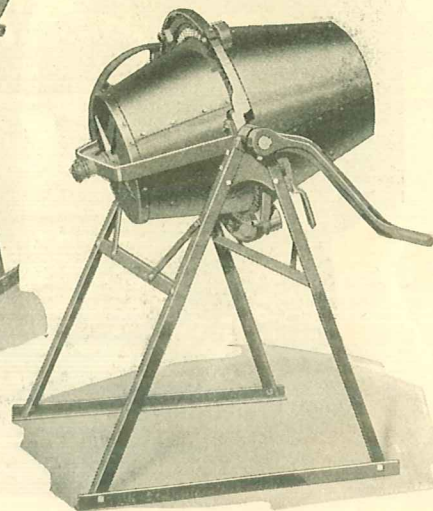


Front View in Loading Position.

**Two Sizes
3 and 4 Cubic Feet**

\$50⁸⁰

4 Cubic Foot Capacity



Side View in Loading Position.

This Wizard Tilting Drum Concrete Mixer is made in two sizes: Three and four cubic foot capacities. Especially suited for general use on small jobs, such as floors, walks, driveways, foundations, cellars, drinking troughs, etc.

Just the Right Size for Medium Sized Jobs

The drum is so proportioned that, with the help of the three simple mixing blades on the inside, a thorough mix and quick discharge is obtained. The tilting drum permits loading on one side and discharging on the other side of the mixer. This feature allows piling of materials close enough to the machine so that they can easily be shoveled directly into the drum. This does away with expensive wheeling of material from pile to mixer. Can be operated either by hand or by power. Will mix concrete, mortar or plaster, wet or dry. **A GOOD FEED MIXER.**

Specifications for Three Cubic Foot Wizard Concrete Mixer.

CAPACITY—3 cubic feet of unmixed material. Will mix 25 to 35 cubic yards per day.

POWER—Equipped with 20x3-inch tight pulley. Can be operated with 1 horse-power engine. All main bearings equipped with hard oil cups.

FRAME—Made of 1½-inch angle iron.

MIXING DRUM—22 inches in diameter, 33 inches deep, with a 16-inch opening.

GENERAL DIMENSIONS—Length, 3 feet 2 inches; width, 3 feet; height, 4 feet 6 inches. Charging height, 35 inches.

63B5995—Three Cubic Foot Wizard Concrete Mixer on stand.

Shipping weight, 300 pounds.....**\$40.95**

Specifications for Four Cubic Foot Wizard Concrete Mixer.

CAPACITY—4 cubic feet of unmixed material per batch. Will mix from 30 to 40 cubic yards per day.

POWER—Equipped with 20x3-inch tight pulley. Can be operated with 1½ horse-power engine. All main bearings equipped with hard oil cups.

FRAME—Made of 1½-inch angle iron.

MIXING DRUM—26 inches in diameter; 33 inches deep, with a 17¾-inch opening.

GENERAL DIMENSIONS—Length, 3 feet 9 inches; width, 3 feet 4 inches; height, 4 feet 9 inches. Handle, 23 inches. Charging height, 37 inches.

63B5996—Four Cubic Foot Wizard Concrete Mixer on stand.

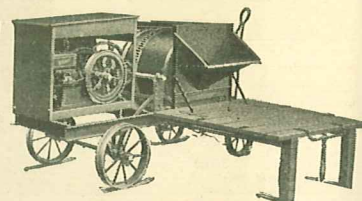
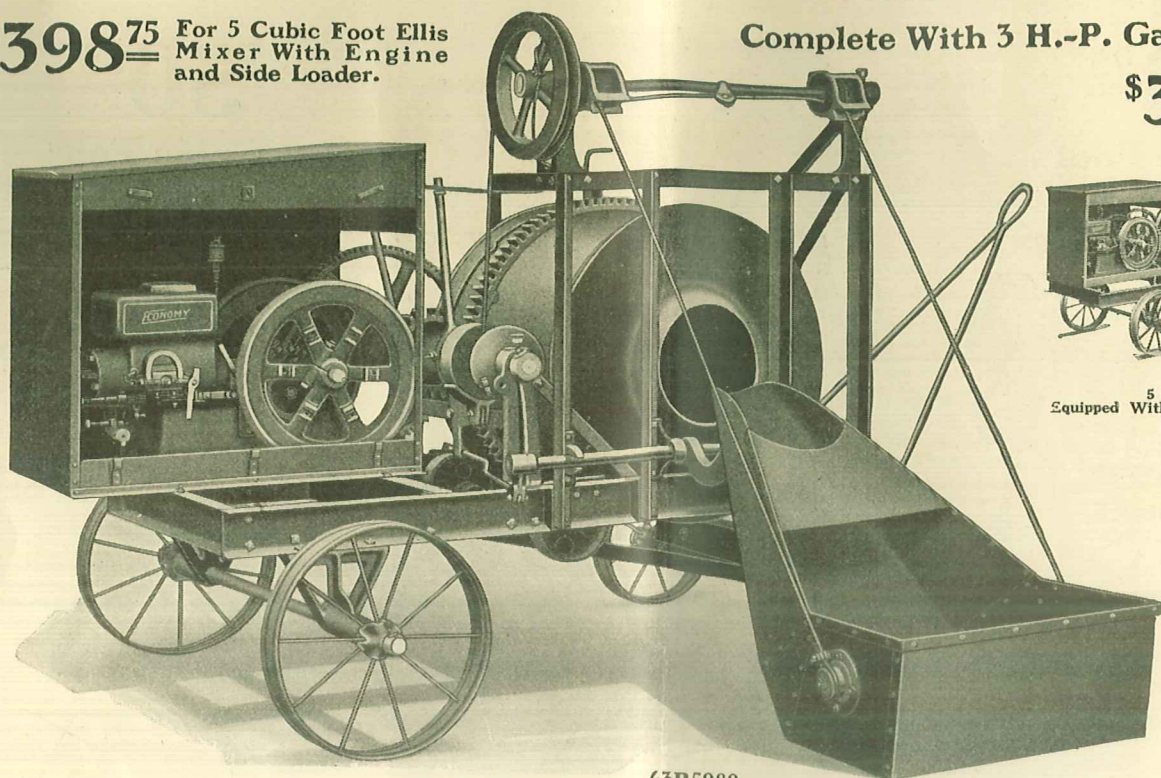
Shipping weight, 390 pounds.....**\$50.80**

5 Cubic Foot Ellis Concrete Mixer

\$398⁷⁵ For 5 Cubic Foot Ellis Mixer With Engine and Side Loader.

Complete With 3 H.-P. Gasoline Engine

\$383⁹⁰



63B5984
5 Cubic Foot Mixer,
Equipped With Engine and Wood Loading Platform.

63B5980
5 Cubic Foot Mixer Equipped With Engine and Side Loader.

The Ellis Concrete Mixer is a high grade standard drum type mixer. Incorporates every desirable feature. Ruggedly built throughout to withstand the severe treatment to which a concrete mixer is subjected. The real value of a mixer is its ability to properly mix and rapidly discharge the batch, combined with simplicity and durability. These are features which make the Ellis Concrete Mixer the logical machine for you to buy. With capacities of 50 to 100 cubic yards of concrete per day, one of these machines will pay for itself in a short time.

FEATURES

CAPACITIES—The Ellis Mixer is made in the five cubic foot or half bag size, and the ten cubic foot or full bag size. Liberal dimensions of the drum insure full capacity regardless of the nature or proportions of the materials.

EQUIPMENT—Both five and ten cubic foot sizes can be equipped with a power driven side loader, as shown above, with a wood loading platform, as shown on opposite page, or without either of these features. Equipment of a mixer with a side loader increases its capacity by one-third. The side loader or loading bucket holds a full batch of material so that it can be filled while a batch of concrete is being mixed.

A PERFECT MIX—The heart of a concrete mixer is the drum. Years of efforts by our engineers have resulted in a mixing drum perfect in proportions. The shape and construction of the mixing buckets on the inside insure a perfect mix and quick discharge of concrete in the shortest time.

POWER AND DRIVE—The complete driving equipment, including our

famous Economy gasoline engine, intermediate gears, simple but powerful internal expanding friction clutches, and the semi-steel pinion and drum gear, together with the chilled steel trunnion rollers, guarantee years of continuous service.

CHASSIS—The Ellis Mixer can be quickly and easily moved from one job to another. The steel chassis of the Ellis Mixer, carrying a 5-inch steel channel frame, while eliminating every pound of unnecessary weight, is designed to provide the required strength and rigidity under every conceivable demand.

AUTOMATIC WATER TANKS, which automatically measure the correct amount of water to be supplied to the batch, can be furnished extra. These tanks insure a more uniform mix and are a great convenience where water under pressure is available.

NOTE—Our quality insures continuous service. Our price means a big saving. Our guarantee protects you.

COMPLETE SPECIFICATIONS OF THE 5 CUBIC FOOT MIXER

THE DRUM measures 36 inches in diameter and 30 inches wide. It is made of 10-gauge steel securely attached to heavy cast iron heads. The mixing blades and buckets will do thorough, quick work, and are set so there will be no clogging when mixing semi-dry concrete for product manufacture. One set of buckets in the drum serve the double purpose of carrying the concrete on to the discharge chute and throwing it back into the center of the mixer when discharge chute is raised, thus insuring a perfect mixture. When discharge chute is lowered the mixed concrete is discharged into a wheelbarrow or forms. All material is discharged in a few revolutions of the drum. Openings into drum are 14 inches in diameter on both the intake and discharge side. Loading hopper enters drum so it dumps clean without spilling material outside of machine. A few shovelfuls of gravel and a bucket of water run through the drum will clean it.

SIDE LOADER—Well constructed of sheet steel properly braced. Holds one batch. Raised to discharge into mixer drum by means of steel cable and hoist operated by a simple internal expansion ring clutch. Clutch is disengaged automatically when bucket is at top. At same time bucket is held in position by a leather faced brake controlled by clutch lever so loader can be let down without noise or jar.

CAPACITY—Five cubic feet of unmixed material to the batch, or about 6 cubic yards of properly mixed concrete per hour.

FRAME made of 5x13/4-inch steel channel, with three cross channels of same material.

TRUNNION ROLLERS on which mixing drum is supported have chilled face and measure 10 inches in diameter, with 2-inch face.

TRUCK WHEELS are all steel with cast hub. Front wheels measure 18 inches in diameter; rear, 24 inches in diameter; 4-inch reinforced tires. Axles are cold rolled steel. The rear one is mounted in brackets as shown and the front supported by a hardwood beam.

TRACK—Standard 4-foot 8-inch, so wheels will follow the road track.

POWER—Equipped with our famous 3 Horse-Power Economy Gasoline Engine, with built-in magneto, which eliminates the use of batteries and all engine trouble caused by batteries. Each engine furnished with 8x4-inch pulley for other work, lubricator, grease cups, can of oil and can of grease.

LUBRICATION—All important bearings are provided with a compression grease cup. These enable you to force fresh grease into the bearings and at the same time force the old grease and dirt out of the bearing.

WOOD LOADING PLATFORM—Size, 5 feet wide by 5 feet 10 inches long. Height above ground, 26 1/2 inches. Height from platform to mouth of charging hopper, 19 1/2 inches.

AUTOMATIC WATER TANK—Furnished extra. Capacity, 10 gallons. Fitted to the machine ready for operating (For prices, see below.)

PRICES

63B5980 —Five Cubic Foot Ellis Concrete Mixer, complete with 3 H.-P. Engine and Side Loader. Shipping weight, 2,700 pounds.....	\$398.75
63B5984 —Same as above, but with Wood Loading Platform. Shipping weight, 2,600 pounds.....	383.90
63B5982 —Same as above, but without Wood Loading Platform or Side Loader. Shipping weight, 2,350 pounds.....	364.00
63B5990 —Ten-Gallon Capacity Automatic Water Tank. Fitted to above mixer. Shipping weight, 70 pounds.....	28.60

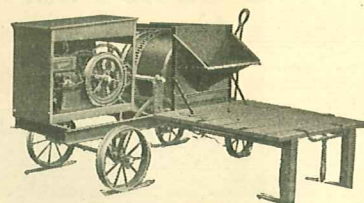
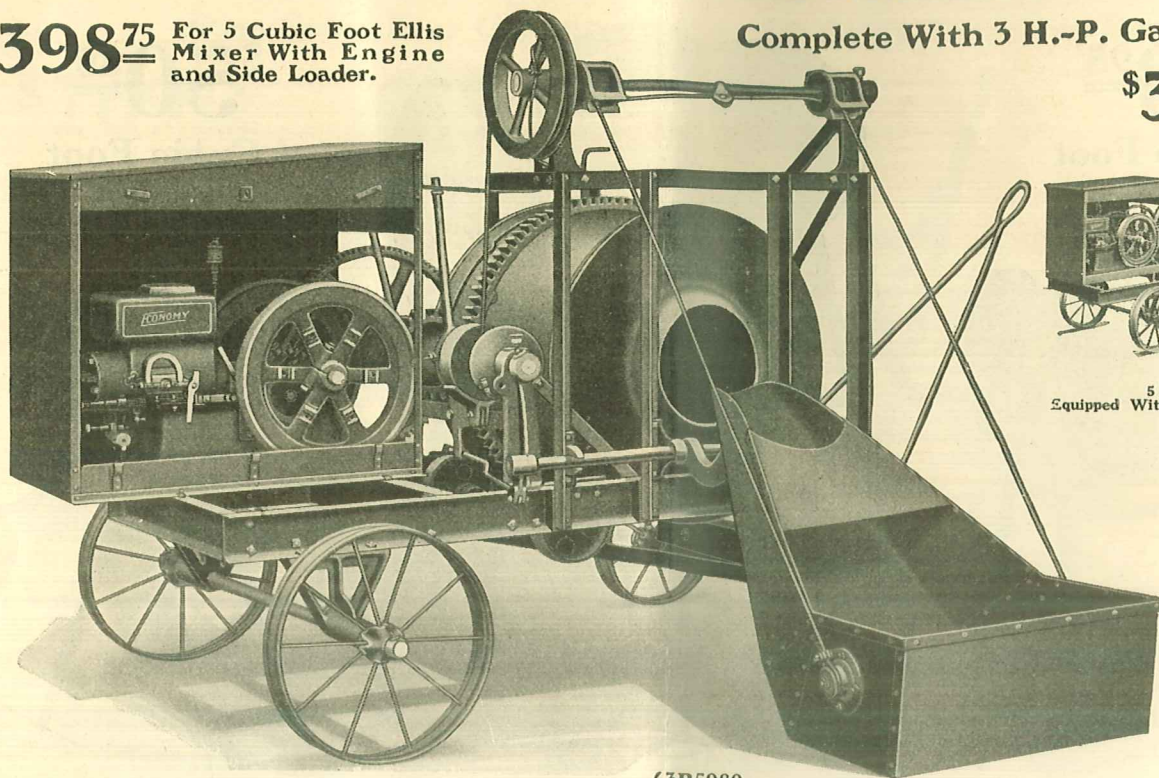
ALL MACHINES ARE SHIPPED COMPLETE FROM FACTORY IN OHIO. 10 Cubic Foot Mixers priced on opposite page.

5 Cubic Foot Ellis Concrete Mixer

\$398⁷⁵ For 5 Cubic Foot Ellis Mixer With Engine and Side Loader.

Complete With 3 H.-P. Gasoline Engine

\$383⁹⁰



63B5984
5 Cubic Foot Mixer.
Equipped With Engine and Wood Loading Platform.

63B5980

5 Cubic Foot Mixer Equipped With Engine and Side Loader.

The Ellis Concrete Mixer is a high grade standard drum type mixer. Incorporates every desirable feature. Ruggedly built throughout to withstand the severe treatment to which a concrete mixer is subjected. The real value of a mixer is its ability to properly mix and rapidly discharge the batch, combined with simplicity and durability. These are features which make the Ellis Concrete Mixer the logical machine for you to buy. With capacities of 50 to 100 cubic yards of concrete per day, one of these machines will pay for itself in a short time.

FEATURES

CAPACITIES—The Ellis Mixer is made in the five cubic foot or half bag size, and the ten cubic foot or full bag size. Liberal dimensions of the drum insure full capacity regardless of the nature or proportions of the materials.

EQUIPMENT—Both five and ten cubic foot sizes can be equipped with a power driven side loader, as shown above, with a wood loading platform, as shown on opposite page, or without either of these features. Equipment of a mixer with a side loader increases its capacity by one-third. The side loader or loading bucket holds a full batch of material so that it can be filled while a batch of concrete is being mixed.

A PERFECT MIX—The heart of a concrete mixer is the drum. Years of efforts by our engineers have resulted in a mixing drum perfect in proportions. The shape and construction of the mixing buckets on the inside insure a perfect mix and quick discharge of concrete in the shortest time.

POWER AND DRIVE—The complete driving equipment, including our

famous Economy gasoline engine, intermediate gears, simple but powerful internal expanding friction clutches, and the semi-steel pinion and drum gear, together with the chilled steel trunnion rollers, guarantee years of continuous service.

CHASSIS—The Ellis Mixer can be quickly and easily moved from one job to another. The steel chassis of the Ellis Mixer, carrying a 5-inch steel channel frame, while eliminating every pound of unnecessary weight, is designed to provide the required strength and rigidity under every conceivable demand.

AUTOMATIC WATER TANKS, which automatically measure the correct amount of water to be supplied to the batch, can be furnished extra. These tanks insure a more uniform mix and are a great convenience where water under pressure is available.

NOTE—Our quality insures continuous service. Our price means a big saving. Our guarantee protects you.

COMPLETE SPECIFICATIONS OF THE 5 CUBIC FOOT MIXER

THE DRUM measures 36 inches in diameter and 30 inches wide. It is made of 10-gauge steel securely attached to heavy cast iron heads. The mixing blades and buckets will do thorough, quick work, and are set so there will be no clogging when mixing semi-dry concrete for product manufacture. One set of buckets in the drum serve the double purpose of carrying the concrete on to the discharge chute and throwing it back into the center of the mixer when discharge chute is raised, thus insuring a perfect mixture. When discharge chute is lowered the mixed concrete is discharged into a wheelbarrow or forms. All material is discharged in a few revolutions of the drum. Openings into drum are 14 inches in diameter on both the intake and discharge side. Loading hopper enters drum so it dumps clean without spilling material outside of machine. A few shovelfuls of gravel and a bucket of water run through the drum will clean it.

SIDE LOADER—Well constructed of sheet steel properly braced. Holds one batch. Raised to discharge into mixer drum by means of steel cable and hoist operated by a simple internal expansion ring clutch. Clutch is disengaged automatically when bucket is at top. At same time bucket is held in position by a leather faced brake controlled by clutch lever so loader can be let down without noise or jar.

CAPACITY—Five cubic feet of unmixed material to the batch, or about 6 cubic yards of properly mixed concrete per hour.

FRAME made of 5x1 $\frac{3}{4}$ -inch steel channel, with three cross channels of same material.

TRUNNION ROLLERS on which mixing drum is supported have chilled face and measure 10 inches in diameter, with 2-inch face.

TRUCK WHEELS are all steel with cast hub. Front wheels measure 18 inches in diameter; rear, 24 inches in diameter; 4-inch reinforced tires. Axles are cold rolled steel. The rear one is mounted in brackets as shown and the front supported by a hardwood beam.

TRACK—Standard 4-foot 8-inch, so wheels will follow the road track.

POWER—Equipped with our famous 3 Horse-Power Economy Gasoline Engine, with built-in magneto, which eliminates the use of batteries and all engine trouble caused by batteries. Each engine furnished with 8x4-inch pulley for other work, lubricator, grease cups, can of oil and can of grease.

LUBRICATION—All important bearings are provided with a compression grease cup. These enable you to force fresh grease into the bearings and at the same time force the old grease and dirt out of the bearing.

WOOD LOADING PLATFORM—Size, 5 feet wide by 5 feet 10 inches long. Height above ground, 26 $\frac{1}{2}$ inches. Height from platform to mouth of charging hopper, 19 $\frac{1}{2}$ inches.

AUTOMATIC WATER TANK—Furnished extra. Capacity, 10 gallons. Fitted to the machine ready for operating (For prices, see below.)

PRICES

63B5980 —Five Cubic Foot Ellis Concrete Mixer, complete with 3 H.-P. Engine and Side Loader. Shipping weight, 2,700 pounds.....	\$398.75
63B5984 —Same as above, but with Wood Loading Platform. Shipping weight, 2,600 pounds.....	383.90
63B5982 —Same as above, but without Wood Loading Platform or Side Loader. Shipping weight, 2,350 pounds.....	364.00
63B5990 —Ten-Gallon Capacity Automatic Water Tank. Fitted to above mixer. Shipping weight, 70 pounds.....	28.60

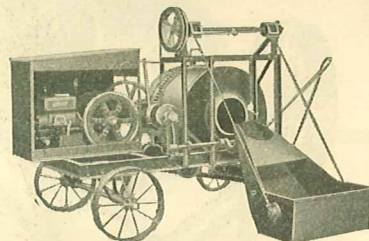
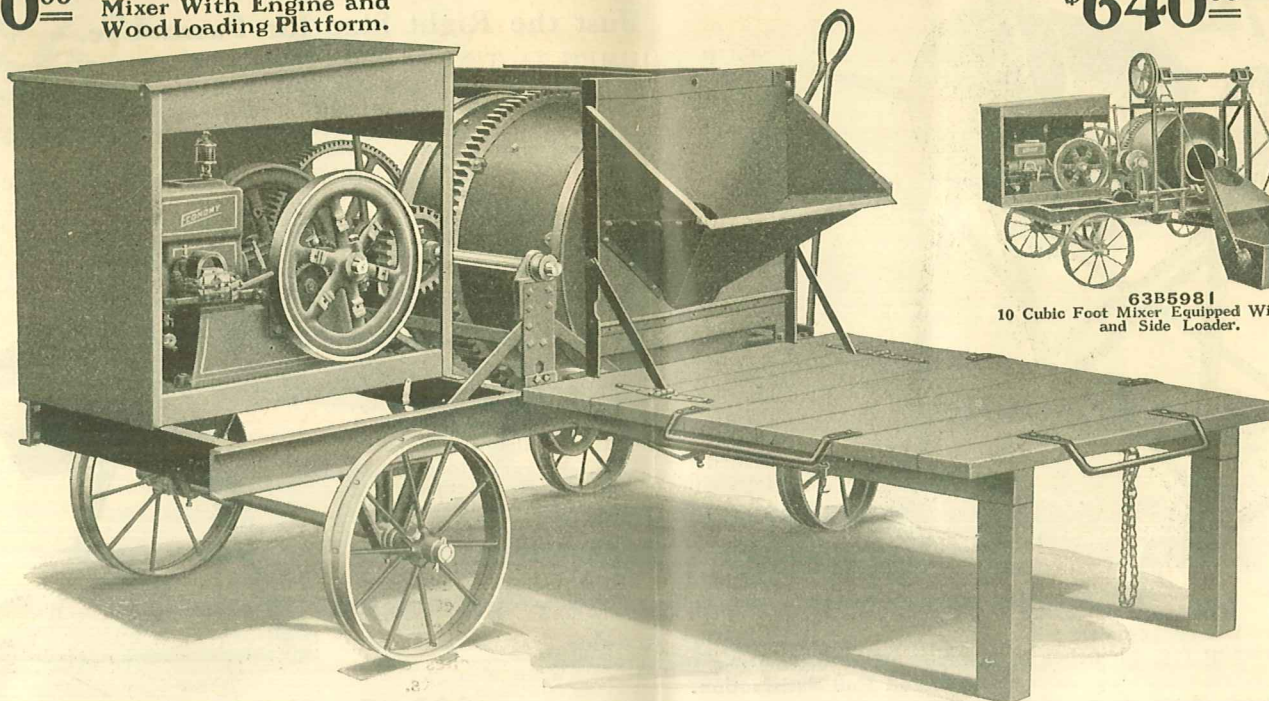
ALL MACHINES ARE SHIPPED COMPLETE FROM FACTORY IN OHIO. 10 Cubic Foot Mixers priced on opposite page.

10 Cubic Foot Ellis Concrete Mixer

\$580⁰⁰

For 10 Cubic Foot Ellis Mixer With Engine and Wood Loading Platform.

\$640⁰⁰



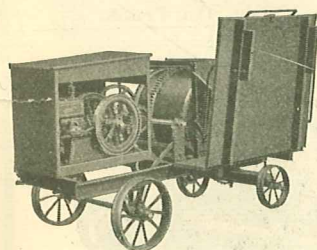
63B5981
10 Cubic Foot Mixer Equipped With Engine and Side Loader.

63B5985

10 Cubic Foot Mixer Equipped With Engine and Wood Loading Platform.

For contractors who prefer a mixer without the power side loader, we can furnish our Five and Ten Cubic Foot Ellis Mixers, described on this and the opposite page, with a wood loading platform and charging hopper, as shown above, or with the hopper only without the platform. Built with the same precision and high grade material as are those with the side loader. This makes an exceptionally low priced mixer.

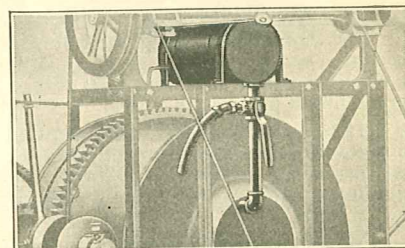
SEE FEATURES—fully described on opposite page.



Showing Platform in Raised Position.

LOADING PLATFORM—Large enough to provide plenty of room for dumping materials into the charging hopper. Solidly constructed of 2-inch plank with 4x4-inch hinged legs. Fitted with supports for runway planks. Hinged to frame of mixer in such a way that in moving from one job to another the platform is simply raised and hooked to the side of the machine.

The Automatic Water Tank will be attached to any of our Ellis Mixers if you allow the extra price. Where water under pressure is available these tanks will automatically measure the correct amount of water for every batch, giving uniform moisture to the mixture, a necessary feature for good concrete. Tank is fitted with a three-way valve and a lever which, turned one way, admits the proper amount of water to the tank, and when turned the other way discharges this water from the tank into the drum.



Automatic Water Tank.

COMPLETE SPECIFICATIONS OF THE 10 CUBIC FOOT MIXER

THE DRUM measures 46 inches in diameter and 38 inches wide. It is made of 10-gauge steel securely attached to heavy cast iron heads. The mixing blades and buckets will do thorough, quick work, and are set so there will be no clogging when mixing semi-dry concrete for product manufacture. One set of buckets in the drum serves the double purpose of carrying the concrete on to the discharge chute and throwing it back into the center of the mixer when discharge chute is raised, thus insuring a perfect mixture. When discharge chute is lowered the mixed concrete is discharged into a wheelbarrow or forms. All material is discharged in a few revolutions of the drum. Openings into drum are 25 inches in diameter on the intake side and 16 inches on the discharge side. Loading hopper enters drum so it dumps clean without spilling material outside of machine. A few shovelfuls of gravel and a bucket of water run through the drum will clean it.

SIDE LOADER—Well constructed of sheet steel properly braced. Holds one batch. Raised to discharge into mixer drum by means of steel cable and hoist operated by a simple internal expansion ring clutch. Clutch is disengaged automatically when bucket is at top. At same time bucket is held in position by a leather faced brake controlled by clutch lever so loader can be let down without noise or jar.

CAPACITY—Ten cubic feet of unmixed materials to the batch, or about 12 cubic yards of properly mixed concrete per hour.

FRAME made of 5x1 3/4-inch steel channel, with three cross channels of same material.

TRUNNION ROLLERS on which mixing drum is supported have chilled face and measure 10 inches in diameter, with 2-inch face.

TRUCK WHEELS are all steel with cast hub. Front wheels measure 18 inches in diameter; rear, 24 inches in diameter; 4-inch reinforced tires. Axles are cold rolled steel. The rear one is mounted in brackets as shown and the front supported by a hardwood beam.

TRACK—Standard 4-foot 8-inch, so wheels will follow the road track.

POWER—Equipped with our famous 5 Horse-Power Economy Gasoline Engine, with built-in magneto, which eliminates the use of batteries and all engine trouble caused by batteries. Each engine furnished with 12x6-inch pulley for other work, lubricator, grease cups, can of oil and can of grease.

LUBRICATION—All important bearings are provided with a compression grease cup. These enable you to force fresh grease into the bearings and at the same time force the old grease and dirt out of the bearing.

WOOD LOADING PLATFORM—Size, 5 feet wide by 5 feet 10 inches long. Height above ground, 27 1/2 inches. Height from platform to mouth of charging hopper, 19 1/2 inches.

AUTOMATIC WATER TANK furnished extra. Capacity, 20 gallons. Fitted to the machine ready for operating. (For prices, see below.)

PRICES

63B5981—Ten Cubic Foot Ellis Concrete Mixer, complete with Engine and Side Loader. Shipping weight, 4,000 pounds.....	\$640.00
63B5985—Same as above, but with Wood Loading Platform. Shipping weight, 3,850 pounds.....	580.00
63B5983—Same as above, but without Wood Loading Platform or Side Loader. Shipping weight, 3,700 pounds.....	554.00
63B5991—Twenty-Gallon Capacity Automatic Water Tank. Fitted to above mixer. Shipping weight, 110 pounds.....	43.75

ALL MACHINES ARE SHIPPED COMPLETE FROM FACTORY IN OHIO. 5 Cubic Foot Mixers priced on opposite page.

Concrete Mixer—Feed Mixer

—IT DOES DOUBLE DUTY

\$27⁸⁵

Just the Right Size for Farm Use.



Front View of Triumph Concrete Mixer in Loading Position.

OUR TRIUMPH TILTING DRUM CONCRETE MIXER is just fit for odd jobs on the farm. You can use it every day in the year. Thoroughly mixes concrete for foundations, floors, feed or water troughs, sidewalks, culverts, fence posts, feed yards, roadways, silos, etc. It is also a GOOD FEED MIXER as well as a FERTILIZER MIXER.

OUR TRIUMPH TILTING DRUM CONCRETE MIXER will do your mixing in the easiest way. The machine is made of good quality, is the proper size, and is specially designed for farm use. The tilting drum permits loading on one side and discharging on the other. Thoroughly mixes concrete, mortar or plaster, wet or dry, also feed and fertilizer.

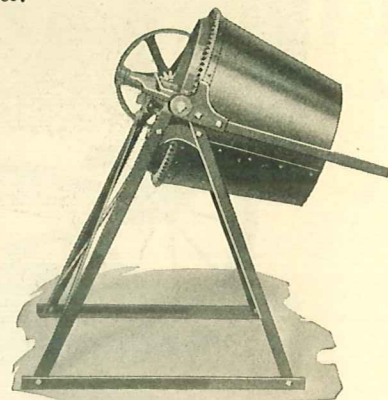
SPECIFICATIONS:

CAPACITY—1½ to 2 cubic feet per batch.

POWER—Equipped with 16-inch pulley, 3-inch face; can be operated with 1 horse-power engine; also handle furnished for hand power. All main bearings equipped with hard oil cups.

FRAME—Made of 1½x1½ steel angle.

GENERAL DIMENSIONS—Length, 3 feet; width, 2 feet 10 inches; height, 4 feet 6 inches; shoveling height, 35 inches.



Side View of Triumph Concrete Mixer in Dumping Position.

DRUM—Heavy 16-gauge sheet steel, with cast iron bottom, 22 inches deep, 18 inches in diameter at top, 23 inches in diameter at bottom, inside measurements.

Guaranteed Full Satisfaction.

63B5998—Triumph Concrete Mixer, on stand. Shipping weight, 250 pounds.. **\$27.85**

\$112⁷⁵ The Ellis Concrete Mixer \$147⁹⁵

For Hand or Power—3 and 5 Cubic Foot Capacities.

On Skids.

On Truck.

The Ellis Mixer, illustrated here, is practically the same as the mounted outfits shown on page 8 and, although an efficient mixer, it is rather large and heavy for hand operation. For stationary installation in a concrete block plant with power it is just the thing.

If you have no power at the present time, get the hand operated machine, and should you install an engine or motor later on you can purchase the power pulley and drive by power. Power pulley measures 20 inches in diameter and has 3-inch face and should be driven about 180 revolutions per minute.

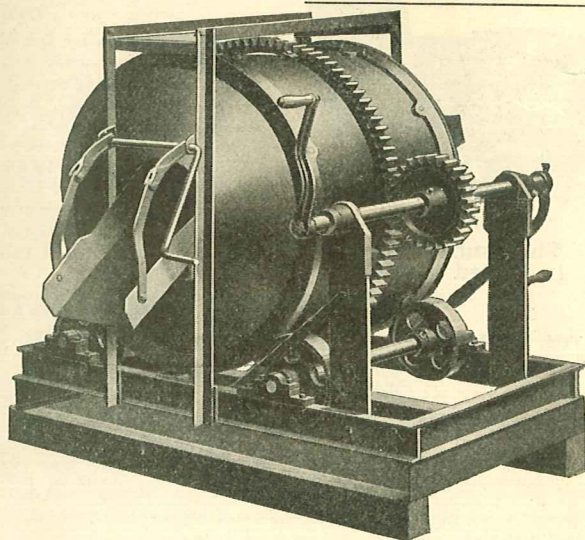
For general work the machine mounted on truck will prove to be very convenient. The discharge spout is high enough to discharge the mixed concrete into a wheelbarrow, and is long enough so mixer can be set alongside of forms in many cases and the mixed concrete can be discharged directly into the forms.

SPECIFICATIONS.

THE DRUM—Measures 36 inches in diameter and 30 inches wide. It is made of 10-gauge steel reinforced by heavy castings. The mixing blades and buckets will do thorough, quick work, and are set so there will be no clogging when mixing semi-dry concrete for product manufacture. One set of buckets in the drum serves the double purpose of carrying the concrete on to the discharge chute and throwing it back into the center of the mixer when discharge chute is raised, thus insuring a perfect mixture. When discharge chute is lowered the mixed concrete is discharged into wheelbarrow or forms. All material is discharged in a few revolutions of the drum. Openings into drum are 14 inches in diameter. Loading side of drum is fitted with a charging hopper 20 inches wide, the top edge of which is 44 inches from the ground. This makes it easy to charge with materials. To clean the drum throw in a few shovelfuls of gravel and a bucket of water. Turn a few minutes and then discharge and it will be clean.

CAPACITY—When operated by hand, 3 cubic feet per batch; when operated by power, up to 5 cubic feet per batch.

FRAME—Made of 3-inch steel channel, with cross channels of same material. Measures 4 feet 10 inches long and 3 feet 2 inches wide over all. Total width, including charging hopper, is 4 feet 2 inches.



TRUNNION ROLLERS—On which mixing drum is supported, have chilled face and measure 10 inches in diameter, with 2-inch face.

MOUNTING—On skids, as illustrated, for stationary use. On trucks for portable use. Trucks have steel wheels 16 inches in diameter with 3-inch tires. Track or distance between wheel centers is 48 inches.

LUBRICATION—All important bearings are provided with compression grease cups. These enable you to force fresh grease into the bearing and at the same time force the old grease and dirt out of the bearing.

63B5976—Ellis Hand Operated Concrete Mixer, on skids. Shipping weight, 860 pounds..... **\$112.75**

63B5978—Ellis Hand Operated Concrete Mixer, on truck. Shipping weight, 1,250 pounds..... **147.95**

63B5979—Power Pulley for Ellis Concrete Mixer, 20-inch diameter, 3-inch face. Shipping weight, 35 pounds... **7.15**

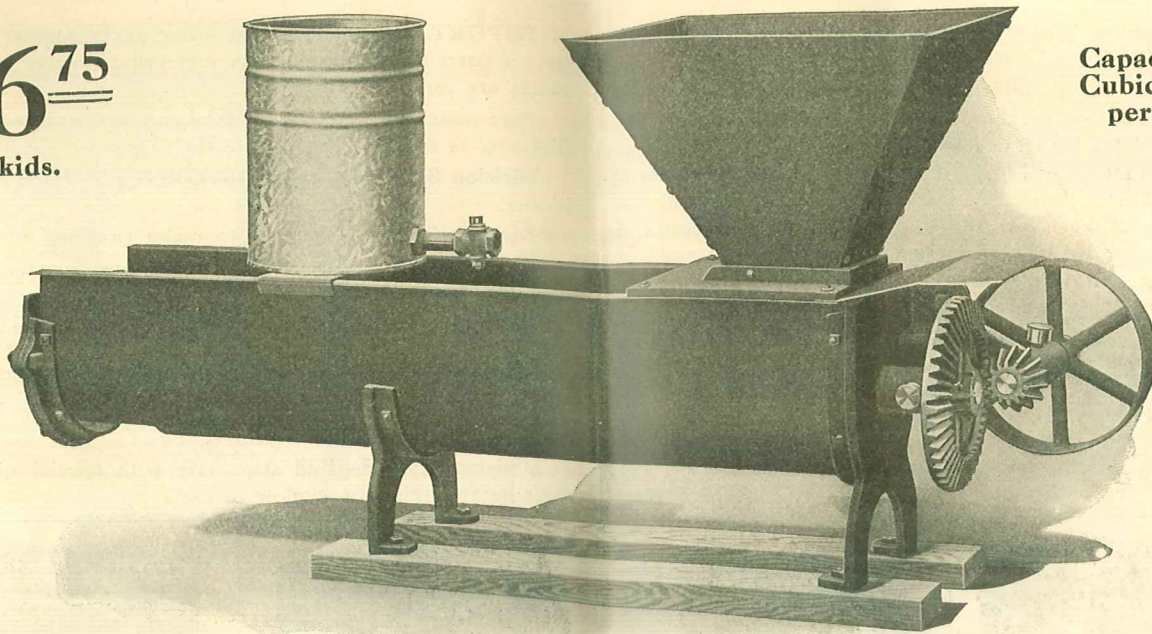
ALL ARTICLES ON THIS PAGE ARE SHIPPED FROM FACTORY IN OHIO.

Harvard Concrete Mixer

\$36⁷⁵

On Skids.

Capacity, 25
Cubic Yards
per Day.



An Efficient Low Priced Power Concrete Mixer.

As shown in the illustrations, this mixer operates on the pug mill principle, which thoroughly mixes the concrete and distributes the moisture evenly throughout the mass. It is an efficient and reliable machine, adapted for the contractor on small jobs, for the farmer and for the concrete product manufacturer.

TO USE AS A BATCH MIXER. The hopper bottom is closed by a steel slide and the materials placed in the hopper in even layers. The mixer is then started and slide withdrawn.

TO USE AS A CONTINUOUS MIXER. The hopper bottom is left open and the cement, sand and gravel or stone are thrown into the hopper in proper proportions.

TO CLEAN THE MIXER have it in operation and throw in plenty of sand and water.

SPECIFICATIONS.

HOPPER—Made of 16-gauge sheet steel. Size, 20 inches square at top, 15 inches deep. Capacity, 2 cubic feet. Securely riveted at joints and bolted to drum of mixer. Steel slide provided in bottom to control feed of materials.

MIXING DRUM—Made of 16-gauge hard rolled sheet steel. Measures 4 feet long, 12 inches wide. Ends of drum securely held in castings of ample weight, providing proper strength. Discharge is at bottom of drum, so concrete cannot be forced into end bearing of shaft.

MIXING BLADES—Held to 1¼-inch steel shaft by set screw and locked to each other by dovetail on blade. Designed to push material forward 4 inches and back about 1 inch, which insures perfect mixing. Blades can be easily removed for replacement.

WATER SUPPLY is provided by a galvanized iron tank holding 3 gallons, mounted on a bracket, which can be moved forward or back on the drum so water can be added at any desired stage of the mixing. Tank is provided with brass water valve for controlling amount of water fed to the mixture.

TRANSMISSION is by means of heavy bevel gears, as illustrated. Pulley is 11 inches in diameter, 3-inch face, and should be driven at 125 to 175 revolutions per minute. Grease cups provided where needed.

CAPACITY—Up to 25 cubic yards of mixed concrete per day, depending on number of men using machine.

MOUNTING—63B5674 Harvard Concrete Mixer is mounted on skids, as illustrated, the mixer being supported by heavy castings securely attached to drum. The front support also forms the drum end and support for drive mechanism so that all is perfectly rigid. The truck we use for our mounted outfits has ample space and capacity for mounting a gasoline engine of 1½ or 2½ horse-power size. Bolsters and axles are cast of steel in one piece. Wheels are 16 inches in diameter, 2½-inch face. Steel rims and spokes with cast hub.

63B5674—Harvard Concrete Mixer on Skids.

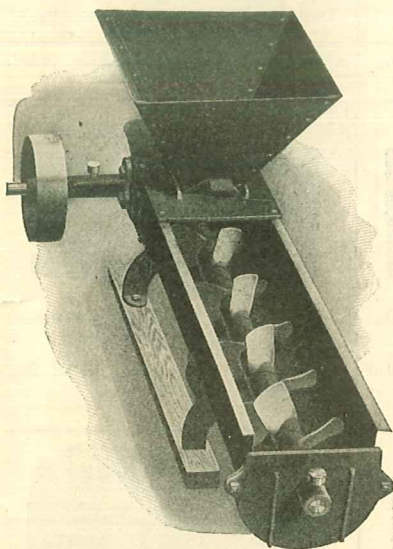
Shipping weight, 240 pounds.....

\$36.75

63B5675—Harvard Concrete Mixer on Truck.

Shipping weight, 325 pounds.....

54.25



Looking down into the mixing trough of the Harvard Mixer.

\$23⁰⁰

A Special Low Priced Concrete Mixer

Capacity, 3 Cubic Feet.

Without Tray.

This Special Concrete Mixer is just the thing for mixing small batches of feed or concrete. But eight revolutions of the drum are necessary to do a perfect job of mixing, so each batch can be mixed rapidly. This makes it a desirable machine for general work, as a number of thoroughly mixed batches of concrete can be made ready in a short time.

THE STANDS are of cast iron, braced with flat steel, making a very rigid frame.

THE DRUM has cast iron heads and sheet steel shell. Measures 14 inches square and 31 inches long inside.

THE OPENING extends the entire length of one corner so drum will dump clean and quickly, and the latches, although very simple, hold it securely.

CAPACITY—Three cubic feet of unmixed material per batch.

TO USE—Turn drum with opening on top and drop latch on side over the handle. Open lid and put in the required amount of water, then throw in the gravel, sand and cement in the order named, spreading each material in an even layer. Turn drum in either direction eight to ten revolutions and the mixing is completed. Open lid and turn drum one revolution to dump.

THE TRAY shown in illustration hooks on the rear braces and throws the mixed concrete out from under the drum. Mixer can be furnished without tray if desired.

63B5748—Special Concrete Mixer, without tray.

Shipping weight, 175 pounds.....

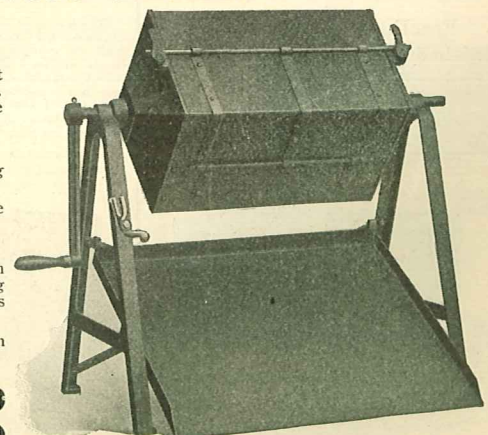
\$23.00

63B5749—Special Concrete Mixer, with tray.

Shipping weight, 200 pounds.....

28.50

All Articles on This Page Shipped From Factory in OHIO.



Showing Concrete Mixer With Tray.

Designs We Furnish for Our Block Machines

The illustrations below were made from actual photographs of blocks made on our Wizard Machine.

The patterns for these face plates are made direct from cut stone which were prepared by expert stone cutters.

The face plates for our Knox and Triumph Block Machines and our porch molds will make products with face just as handsome. We show return corner blocks for the purpose of illustration, but to make return blocks you must have endgates, as listed in the price list of extras, for the particular size and kind of a machine you want the parts to fit. Most designs are reversible, so but one endgate is required for making right or left corners. Where design is not reversible both endgates are required. Endgates are priced separately and are not included with the face plates unless ordered and price allowed. Right and left are always determined when standing in front of the machine, ready to operate it. As blocks are delivered with back to the operator a right hand endgate makes a return corner which is on the left when facing the block.

IMPORTANT—Be sure to order extra plates from price list of parts for your machine and tell us what machine the plates are for.

Face plates for fractional blocks can be furnished in various divisions as described below, unless otherwise specified.

Division Style A—Divided to make one half and two quarter blocks.

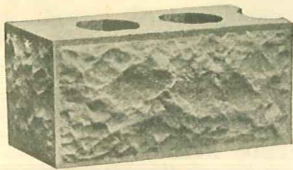
Division Style B—Divided to make two half blocks.

Division Style C—Divided to make one quarter block and one three-quarter block.

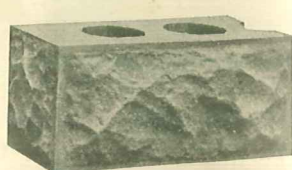
Division Style D—16-inch plate divided to make one 2-inch, one 6-inch and one 8-inch block; 24-inch plate in Division D is divided to make one 8-inch block and one 16-inch block.

Division Style E—Divided to make full size block with half of face smooth for inside corners.

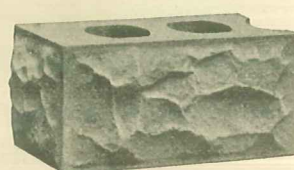
Division Style F—Full size plate with special division line for outside angle bay window blocks.



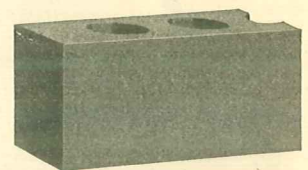
Design No. 1. Shallow Rock Face.



Design No. 2. Medium Rock Face.

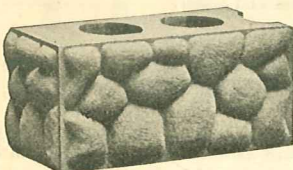


Design No. 3. Heavy Rock Face.

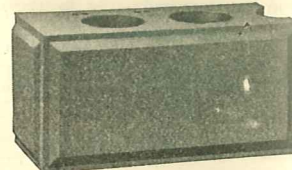


Design No. 4. Standard Plain Face.
Fractional plates can be furnished in all Divisions. But one endgate needed.

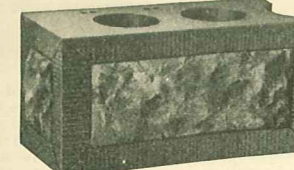
These three designs are reversible, so only one endgate is required for either right or left return corner. Design No. 1 Endgate can be used with Design No. 2, and Design No. 2 Endgate with Design No. 3. Fractional plates can be furnished in any division.



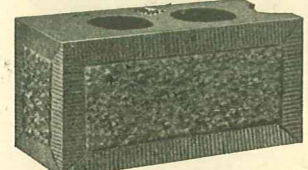
Design No. 5. Cobblestone Face.



Design No. 6. Panel Face.



Design No. 7. Rock Face With 1/2-Inch Tooled Edge.



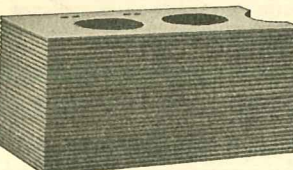
Design No. 8. Bushhammer Face With 1/2-Inch Tooled Edge.
Not made in Divisions C and D. But one endgate required.

A fine "above ground" foundation block. Not made in Division D. But one endgate required.

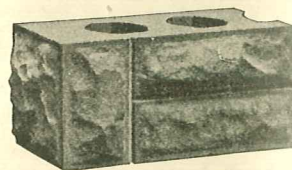
Fractional plates not made in Division D. But one endgate required.

Not made in Divisions C and D. But one endgate required.

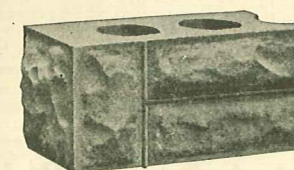
Not made in Divisions C and D. But one endgate required.



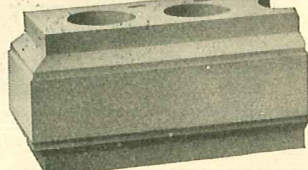
Design No. 9. Horizontal Tooled Face.



Design No. 10. Broken Ashler Face.



Design No. 17. Broken Ashler Face.



Design No. 12. Water Table Face.

Fractional plates can be furnished in any Division. But one endgate required.

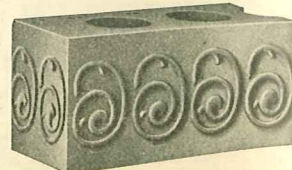
Block made with groove between block sections for heading or tuck pointing when laid up in wall. For fractional blocks order desired division in Design No. 2, which matches this design perfectly. For left hand corner block as illustrated, use endgate of Design No. 2. For right hand corner block order special left hand endgate to match.

Block made with bead between block sections. Does not require tuck pointing when laid up in wall. For fractional blocks order desired division in Design No. 2, which matches this design perfectly. For left hand corner block as illustrated, use Design No. 2 endgate. For right hand corner block order special left hand endgate to match.

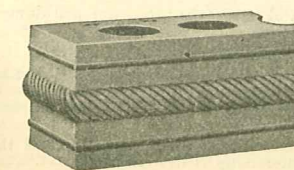
No fractional face plate needed for fractional blocks in this design. Endgate is not fastened in, but sets in place and rests against any plain endgate in machine. It can also be used as a dividing plate for making fractional blocks of any length. But one endgate needed.



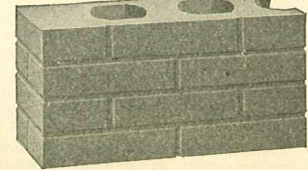
Design No. 13. Ornamental Wreath Face.



Design No. 14. Ornamental Scroll Face.



Design No. 15. Ornamental Rope Face.



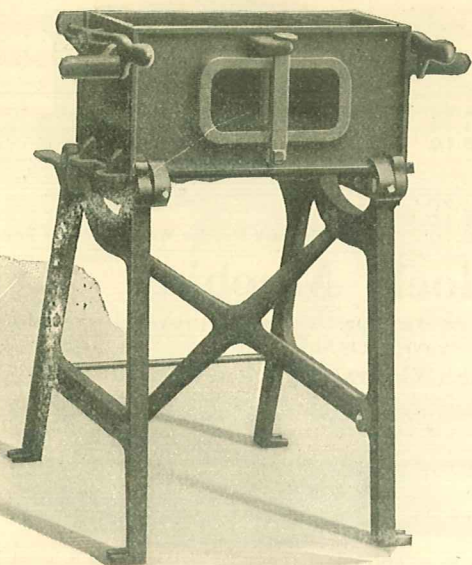
Design No. 16. Pressed Brick Face.
Fractional plates not made in Division D. Both right and left hand endgates are required.

Fractional plate not made in Division D. Both right and left endgates are required.

Fractional plate not made in Division D. Both right and left endgates are required.

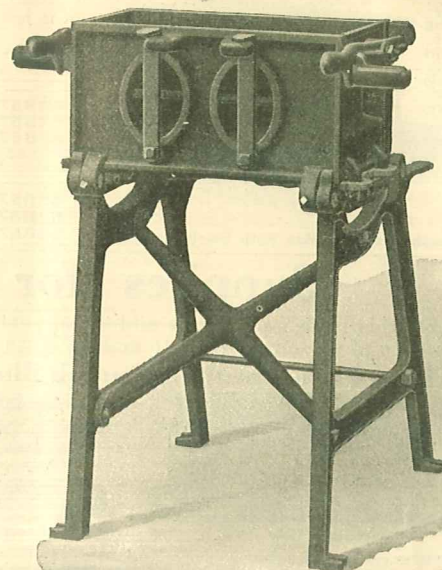
Fractional plate not made in Division D. Both right and left endgates are required.

Triumph Concrete Block Machines

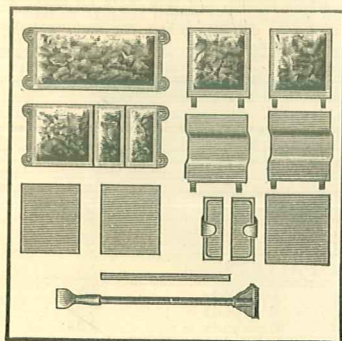


Triumph Block Machine With Single Air Space.

The Triumph Concrete Block Machine makes blocks face down, uses wood pallets and is the machine we recommend for the man who wants to make blocks for his own use. For a larger capacity machine, however, we ask you to read the description of our Wizard Concrete Block Machine on page 16 which has automatic core movement, practically doubling its output over that of the Triumph.



Triumph Block Machine With Double Air Space.



This Outfit of Parts Goes With Every Triumph Concrete Block Making Outfit:

One Rock Face Plate for whole blocks.

One Rock Face Plate for half and quarter blocks.

Two Rock Endgates.

Two Core Endgates.

Two Dividing Plates.

One Gable Block Dividing Plate for making gable blocks.

Two Joist Block Attachments for making opening in block for floor joists.

Plugs for making solid blocks.

One Striker.

One Double End Tamper.

One Sample Wood Pallet (not illustrated).

SPECIFICATIONS

OPERATION—Machine makes blocks face down which enables you to make the face of a better material than the backing of the block and improving the quality and appearance. The flask or mold box is readily locked or opened, by means of simple latches attached to the endgates, for making and releasing the blocks.

CONSTRUCTION—Machine is mounted on a substantial stand securely connected by cross braces which prevent all side play, making a solid rigid machine.

PALLETS—Wood pallets are used, which are made from common lumber with a cleat nailed at each end, and can be made by anyone who can handle a saw and hammer.

CORES—The core, which forms the air space, withdraws vertically after the block is turned over, making it possible to use a wetter mixture, which makes a better block, than if the cores withdrew horizontally.

CAPACITY—One hundred to one hundred and twenty-five blocks per day for two men to mix the concrete, operate the machine and take care of the product.

ALL BLOCKS measure $7\frac{3}{4}$ inches high by $15\frac{3}{4}$ inches long, allowance being made for $\frac{1}{4}$ -inch mortar joint.

EQUIPMENT—We furnish each machine equipped with the outfit of parts illustrated and specified at the left, which will enable you to make all the various styles of rock faced blocks shown at the bottom of the page. If so stated in your order, we will furnish you with any one design shown on page 12, instead of the rock design, or you can purchase extra face plates of any design at prices shown on page 14.

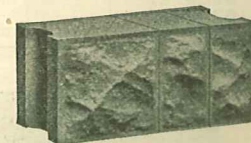
Triumph Concrete Block Machines

Single Air Space.

	Size of Blocks	Shipping Weight	Each
63B5708	8x 8x16 inches	155 pounds	\$32.40
63B5710	8x10x16 inches	200 pounds	38.65
63B5712	8x12x16 inches	225 pounds	45.60

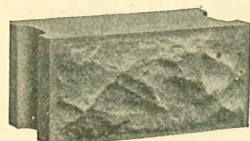
Double Air Space.

	Size of Blocks	Shipping Weight	Each
63B5709	8x 8x16 inches	165 pounds	\$32.40
63B5711	8x10x16 inches	210 pounds	38.65
63B5713	8x12x16 inches	235 pounds	45.60

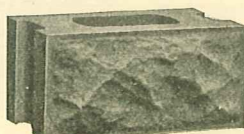


One filling of the mold makes one half block and two quarter blocks.

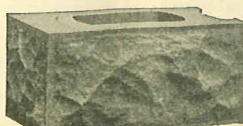
ALL ARTICLES ON THIS PAGE SHIPPED FROM FACTORY IN OHIO.



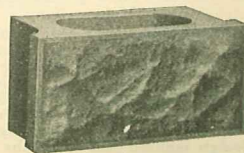
Rock Face Solid Block.



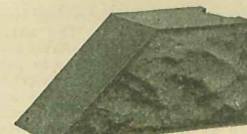
Rock Face Whole Block.



Rock Face Corner Block.



Rock Face Block with opening for joist.



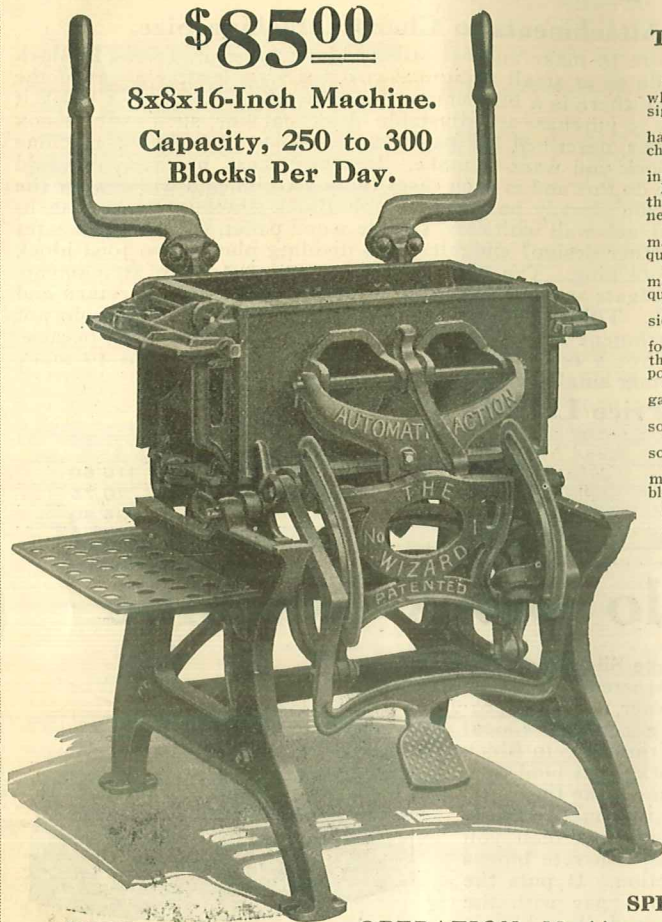
Rock Face Gable Block.

Wizard Concrete Block Machine

\$85⁰⁰

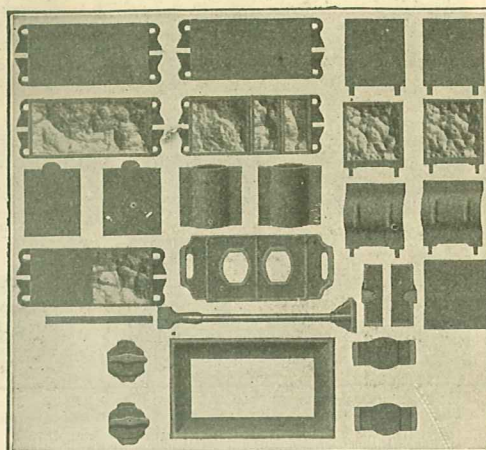
8x8x16-Inch Machine.

**Capacity, 250 to 300
Blocks Per Day.**



These Parts Go With Every Wizard Block Machine at the Prices Listed.

Two Face Plates for making whole blocks, your choice of designs.
Two Face Plates for making half and quarter blocks, your choice of designs.
Two Core Endgates for making core ends on the blocks.
Four Return Endgates to match the face plates for making corner and pier blocks.
Two Plain Dividing Plates for making plain ends on half and quarter blocks.
One Face Plate for making inside corner blocks.
Two Joist Block Attachments for making space for joists in the wall so joists can be put in position without cutting blocks.
One Dividing Plate for making gable blocks.
Two Wall Plugs for making solid blocks.
Two Pallet Plugs for making solid blocks.
One Strike-Off Tool for removing excess material when block is finished.
One Double End Tamper.
One Hopper.
One Cast Iron Pallet.



Features of the Wizard Automatic Block Machine.

We recommend the Wizard Automatic Block Machine to those who require a large capacity outfit. It makes blocks face down. Is automatic and very quick in action. A high grade and complete outfit in every way. Iron pallets are used with this machine.

The pictures on the bottom of the next page show how the Wizard is operated. You will be agreeably surprised at the speed with which you can make a block, take it from the machine and get the machine ready for another block.

The cores are automatically withdrawn as the mold box is turned over, so a wetter mixture can be used than in machines where the core is withdrawn horizontally.

SPECIFICATIONS.

OPERATION—Machine makes blocks face down, which enables you to make the face of a better material than the backing of the block, improving the quality and appearance. The cores are automatically withdrawn when flask is turned over. One spreading movement of operating handles opens entire flask.

CORES are elliptical in shape and being automatically withdrawn as flask is turned over, permits using a wetter mixture than when cores are withdrawn horizontally, which insures a stronger block and shortens the curing process.

PALLETS—Iron pallets are used, as they are easy to handle, do not split, warp or swell and with ordinary care will last forever. Regular equipment includes one pallet only. Additional pallets are listed on next page.

CAPACITY—One man can make from 150 to 200 blocks per day, two men can make 250 to 300 blocks per day. These figures are conservative. This includes entire work of mixing concrete, operating machine and taking care of product.

EQUIPMENT—Each outfit is complete in every respect and the regular equipment will make all of the blocks shown on this page and includes all parts listed and shown above. You have your choice of any two designs shown on page 12. Unless otherwise specified we will ship machines with complete sets of face plates and endgates for making rock face design No. 2 and plain face design No. 4 blocks. Remember to order as many pallets as the number of blocks you intend to make per day.

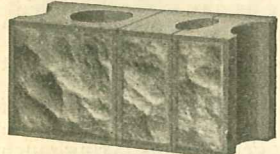
ALL BLOCKS measure 7¾ inches high by 15¾ inches long, allowance being made for ¼-inch mortar joint.

WIZARD BLOCK MACHINES.

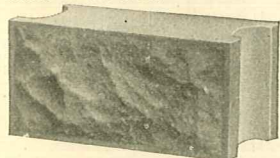
	Size of Blocks	Shipping Weight	Each
63B5515	8x 8x16 inches	420 pounds	\$ 85.00
63B5516	8x 9x16 inches	470 pounds	101.00
63B5517	8x10x16 inches	525 pounds	109.10
63B5518	8x12x16 inches	645 pounds	117.30



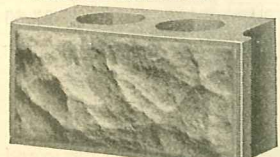
Rock Face Whole Block.



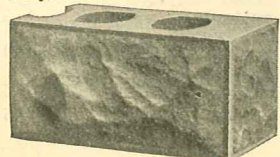
One half block and two quarter blocks. Rock design, made at one filling of the mold.



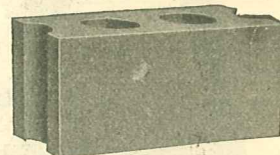
Rock Face Solid Block.



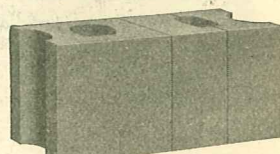
Rock Face Block with opening for joists.



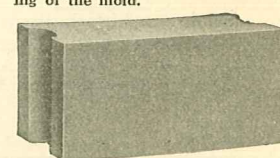
Rock Face and End Corner Block.



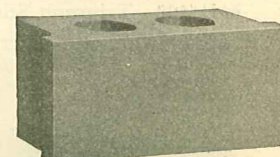
Plain Face Whole Block.



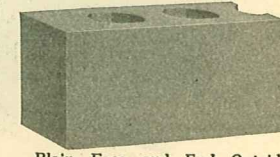
One half block and two quarter plain face blocks made at one filling of the mold.



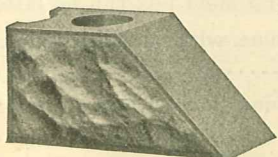
Plain Face Solid Block.



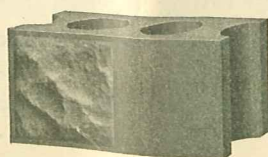
Plain Face Block with opening for joists.



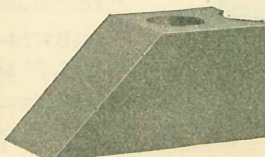
Plain Face and End Outside Corner Block.



Rock Face Gable Block.



Rock Face Inside Corner Block.



Plain Face Gable Block.

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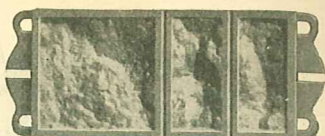
SUPPLIES FOR THE WIZARD BLOCK MACHINE

On this and the next page we describe a number of additional parts and attachments for the Wizard Block Machine which will enable you to make a more complete line of products than can be made on the regular outfit.

Face Plates for the Wizard Block Machine



Whole Block Face Plate.



Fractional Block Face Plate.

A few extra face plates in various designs form a valuable addition to every concrete plant. These plates can be used in any Wizard Block Machine. See page 12 for the different designs we can furnish.

WHOLE BLOCK PLATES are used for making regular 16-inch blocks. If block is to be used on a corner, a return endgate must be ordered separately as listed at the right.

CIRCLE BLOCK PLATES are curved plates and make a block with curved face, conforming to circles of 12 feet, 16 feet, 20 feet or 24 feet in diameter. We always furnish plate for 16-foot circle unless ordered differently. These blocks are used for circular bay windows, towers or any circular wall which does not have to withstand a bursting strain, such as tanks or silos. For building tanks or silos which must be reinforced see our silo block attachment on page 15.

FRACTIONAL FACE PLATES are used to make less than a full 16-inch block and can be furnished with dividing lines for fractional blocks as follows:

Division A—Divided to make two 4-inch blocks and one 8-inch block. This plate is illustrated above.

Division B—Divided to make two 8-inch blocks.

Division C—Divided to make one 4-inch block and one 12-inch block.

Division E—Divided to make full length block with one-half of face smooth, for blocks to be used in inside corners.

We always furnish plate divided to make one half block and two quarter blocks unless you order otherwise.

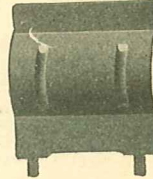
Be sure and state design wanted. Shipping weight, 17 pounds.

Catalog No.	Article	Each
63B5521	Whole Block Face Plate.....	\$4.05
63B5522	Fractional Block Face Plate.....	4.05
63B5523	Circle Block Face Plate.....	4.05

Endgates for the Wizard Block Machine



Rock Endgate.



Core Endgate.

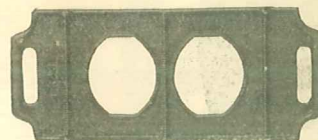
To make blocks for corner use it is necessary to have endgates that match the face plates. In many cases but one endgate is needed, as the blocks can be turned either way for right or left hand corners. Some designs are not reversible, however, and for these you require both right and left ends. Right and left are determined by facing the block machine as you make a block. Full information in regard to ends required is given on page 12.

Be sure to tell us what size and design you want.

Catalog No.	Size	Shipping Weight	Each
63B5531	8x 8 inches	9 pounds	\$2.65
63B5541	8x 9 inches	10 pounds	2.65
63B5551	8x10 inches	11 pounds	2.65
63B5561	8x12 inches	16 pounds	2.65

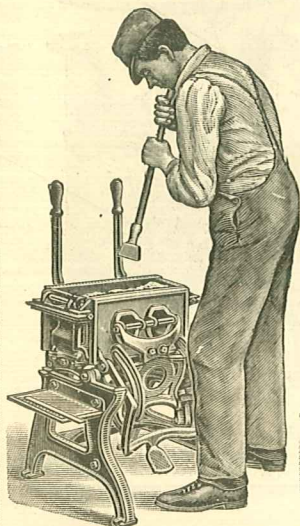
Extra Pallets for Wizard Block Machine

Iron pallets only can be used with the Wizard Block Machine. You must have as many pallets as the number of blocks you intend to make in one day. The blocks must rest on the pallet until hard enough to move, which is usually one day.

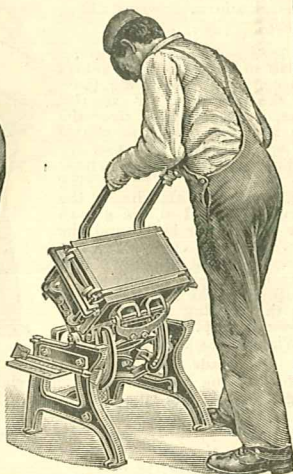


Catalog No.	Size	Shipping Wt.	Each	Per 100
63B5537	8x16 inches	7 pounds	60c	\$58.00
63B5547	9x16 inches	9 pounds	66c	64.00
63B5557	10x16 inches	11 pounds	79c	77.00
63B5567	12x16 inches	16 pounds	92c	91.50

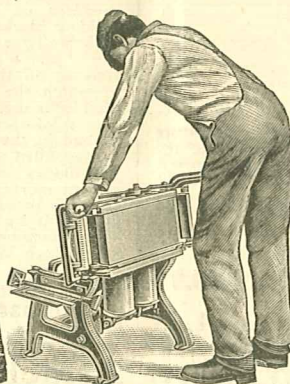
HOW THE WIZARD BLOCK MACHINE OPERATES



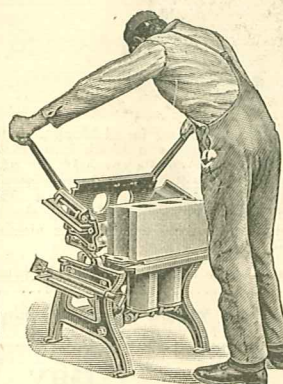
Tamping the Material Face Down.



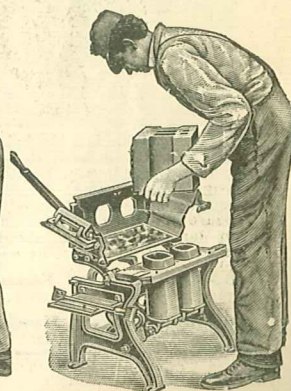
Turning Flask.



Spreading Endgates.



Releasing Block.



Lifting Out Block.

The mold box is turned, cores automatically withdrawn, block released and mold box turned back without letting go of lever handles or moving away from the machine. No lost motion or wasted energy. Pallets made with handles. No carrier to fuss with.

Repairs Cost 3 Cents in Two Years.

Norristown, Penna.

Sears, Roebuck and Co.

I still use the Wizard Block Machine and here are some of its possibilities: The first season we made about 15,000 concrete blocks. The second season 35,000, and the third year we are still going to use the same machine along with some new Wizards in a new and bigger site.

Before going any further, I wish to thank you because there is so little upkeep on a Wizard; it only cost me 3 cents for a few bolts in two years. You will hear from me in the course of a month or so about another machine or two. I remain

Yours truly,
SALVATONE MARINARI.

Still Good After 15 Years.

Findlay, Ill.

Sears, Roebuck and Co.

I have used one of your Wizard Concrete Block Machines for 15 years, have made something like 40,000 blocks on it and it is still going good.

C. W. BARNES.

As Good as New After Thirteen Years' Use.

Lanham, Md.

Sears, Roebuck and Co.

I purchased my "WIZARD" Concrete Machine from you about 13 years ago and today it is as good as the day I bought it; and it can turn out as many if not more blocks than any machine on the market. If any one wants an ideal garage I say build it out of concrete blocks.

With a mixer I would not have any trouble making from 300 to 400 blocks per day. By making a mixture of 5 to 1, I get from 13 to 14 blocks from one bag of cement.

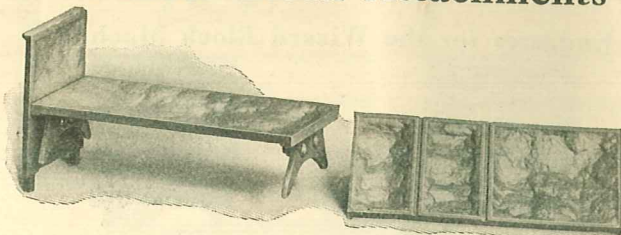
Very truly yours,

JOHN W. HOWSER.

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Supplies for Wizard Block Machine

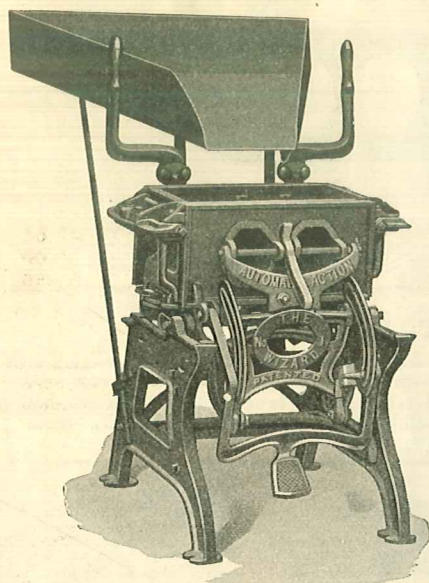
Veneer Block Attachments



In many localities there is a demand for blocks 4 inches thick for veneering frame or brick buildings or for building a two-piece wall with air space between, the blocks being tied together with metal ties. Our attachment consists of a special face plate mounted on a pair of brackets, which raises it up to within 4 inches of the top of the mold box, face plate for half and quarter blocks and a special endgate for corner blocks. The plain or rock face plate and plain endgates as furnished with the machine must be used in connection with the veneer block attachment. If your machine is not equipped with plain endgates be sure to order them with the veneer block attachment. **Be sure to mention design.**

	Size	Shipping Weight	Each
63B5534	8x 8x16 inches	50 pounds	\$11.70
63B5544	8x 9x16 inches	55 pounds	12.15
63B5554	8x10x16 inches	60 pounds	12.55
63B5564	8x12x16 inches	70 pounds	12.95

Wizard Facing Table

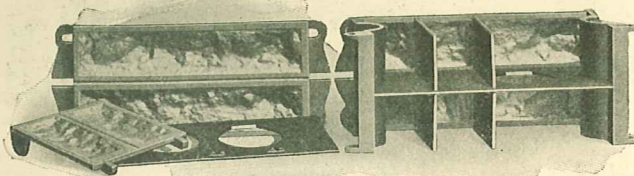


**A
Great
Convenience
for
Making
Faced
Blocks**

This steel table is a big help when making faced blocks. The facing mixture is right where you want it, and enough for a block can be scraped into the machine without loss of time. It is designed expressly for attachment to our Wizard Block Machine. If your machine has the old style straight handles, we can furnish the offset handles at price shown below. This facing table measures 28 inches wide at the back, 11 inches wide at the front and is 7½ inches deep. It will hold about 2 cubic feet, which is as much facing material as it is advisable to mix at one time.

63B5525—Wizard Facing Table, without Block Machine.	\$8.90
Shipping weight, 40 pounds.....	
63B5526—Offset Handles for Wizard Block Machine.	1.65
Shipping weight, 10 pounds. Per pair.....	

Four-Inch Course Block Attachments



The 4-Inch Course Block Attachment is used for making blocks 4 inches high instead of regular 8 inches. Two of these blocks are made with one filling of the mold box. The 4-inch blocks are used for lattice and porch work, and for belt courses around a building to break up the monotony of one style or size of block. The attachment consists of a face plate for making two whole blocks, one face plate for making two half and four quarter blocks, one pair core endgates, one return endgate to match the face plate, two dividing pallets and a set of four dividing plates for making half and quarter blocks. It is necessary to have one dividing pallet for every two course blocks you intend to make in a day. One of the course blocks rests on the regular pallet in the machine and the other on the dividing pallets. Be sure to order enough additional pallets for a day's output. This attachment is complete for making the regular blocks and return corner blocks in whole, half and quarter sizes.

We can furnish 4-Inch Course Block Attachments only in the following designs: Plain, rock, panel and tooled. **Be sure to tell us what design you want and order the correct size.**

Course Block Attachments.

	Size	Shipping Weight	Each
63B5535	8x 8x16 inches	70 pounds	\$16.50
63B5545	8x 9x16 inches	75 pounds	16.75
63B5555	8x10x16 inches	95 pounds	16.90
63B5565	8x12x16 inches	115 pounds	17.25

Course Block Pallets.

	Size	Shipping Weight	Each
63B5536	8x16 inches	7 pounds	\$0.70
63B5546	9x16 inches	8 pounds	.80
63B5556	10x16 inches	10 pounds	.95
63B5566	12x16 inches	11 pounds	1.10

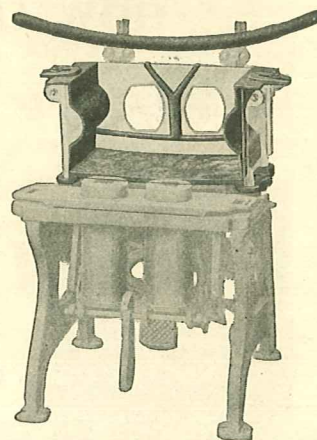
Silo Block Attachment

Our Wizard Block Machine can be used for making blocks with curved face and back that will form a circular wall suitable for silos, tanks or any structure with circular shape walls. To make these blocks the special silo attachment illustrated is needed.

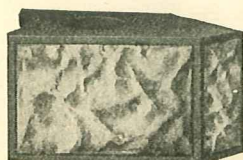
This attachment consists of a curved face plate, a pair of adjustable end plates to be used in connection with the plain endgates on the machine for regular building blocks, a yoke to hook over the back wall for forming groove in top of block, and a special strike off tool for striking off the back wall with a curve to match the face plate. When laying the blocks made with this attachment the wire reinforcement is laid in the groove formed in the top of the block and the groove filled with a rock cement mortar. The blocks are also laid up with a rich cement mortar to provide the necessary strength to withstand the strain brought against it by the settling of the silage. This attachment is suitable only for the 8x8x16-Inch Wizard Block Machine.

Silo blocks are made on the same pallets used for building blocks. Shipping weight, 40 pounds.

63B5539—Wizard Silo Block Attachment for Wizard Block Machine.....	\$12.95
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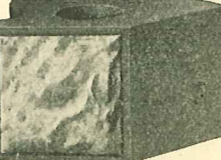
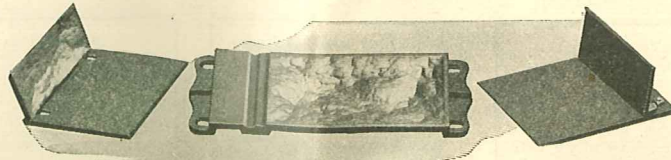


Bay Window Attachments



Outside Angle Block.

To make blocks for bay window construction you require a special attachment as illustrated. The attachment consists of a special face plate and a special angle plate for making outside corner blocks, and an angle plate for inside corner blocks. The angle plate is adjustable to any angle commonly used for bay windows. **Be sure to state design wanted and order the proper size.**



Inside Angle Block.

	Size	Shipping Weight	Each
63B5533	8x 8x16 inches	35 pounds	\$8.30
63B5543	8x 9x16 inches	40 pounds	8.40
63B5553	8x10x16 inches	45 pounds	8.55
63B5563	8x12x16 inches	50 pounds	8.65

ALL ARTICLES ON THIS PAGE SHIPPED FROM FACTORY IN OHIO.

Wizard Automatic Concrete Block Tamper

Wizard Automatic Tampers, sold only by Sears, Roebuck and Co., are built to operate over the Wizard Automatic Block Machine (illustrated on page 16 of this catalog) or any other block machine of the same type.

A Block a Minute

Our Machine will increase your output of concrete blocks to more than double your present capacity. Tests have proved that two men with the aid of this Wizard Tamper can make A BLOCK A MINUTE.

Improves Quality of Block

The weight of each tamper is 18 pounds. This weight is raised and lowered 110 times a minute, insuring a block that is uniformly and perfectly tamped. One advantage of automatic tamping at this speed is that blocks can be made from a much wetter mixture, because the concrete is not stirred as in the case of slow tamping, but is uniformly and firmly packed. This produces a block of better quality than is possible to produce by hand tamping.

Reduces Labor Cost

No extra man is required to operate the Wizard Tamper, as the workman who operates the mold box can throw it in or out of operation in a second's time. All that is required is the lifting or lowering of a lever. The tamper does the work while the mold box is being filled, requiring no additional time for the tamping operation.

Wizard Tampers require but 1½ horse-power to operate. The tamping rods are raised at regular, timed intervals, and lowered by their own weight, insuring uniformity in tamping, which is the most essential feature in making concrete blocks.

SPECIFICATIONS

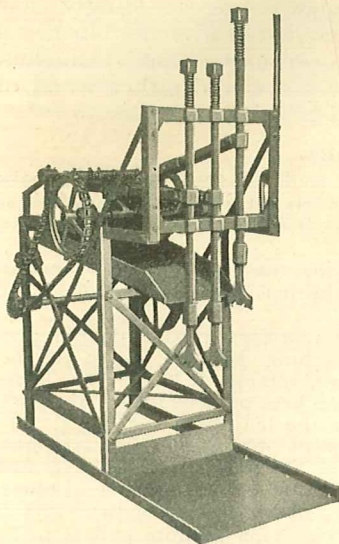
Height, over all, 7 feet 2 inches.
Length, over all, 5 feet 10 inches.
Width, over all, 3 feet 6 inches.
Frame made of 2-inch steel angle iron.
Tampers made of cast iron.
Arms of tampers made of 1-inch square cold rolled steel.
Sprocket wheel is cast iron.
Sprocket chain is malleable iron.
Weight of each tamper, 18 pounds.
Tampers drop a distance of 11 inches.

The three tampers strike 110 blows per minute.
CAPACITY—A BLOCK A MINUTE.
All bearings babbitted.
All boxings fitted with hard grease cups.
Pulley, 20-inch diameter, 3-inch face. Speed, 110 revolutions per minute.
Drive and lifter shafts made of 1¼-inch steel.
All bolts equipped with lock washers.
Tamper guides and lifter arms are reinforced with cast iron.

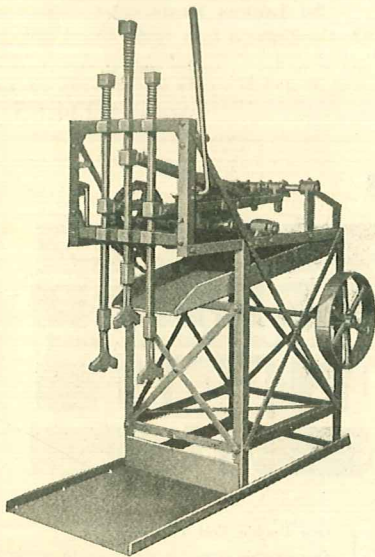
63B5575—Wizard Automatic Concrete Block Tamper. Shipping weight, 750 pounds.....

\$199⁰⁰

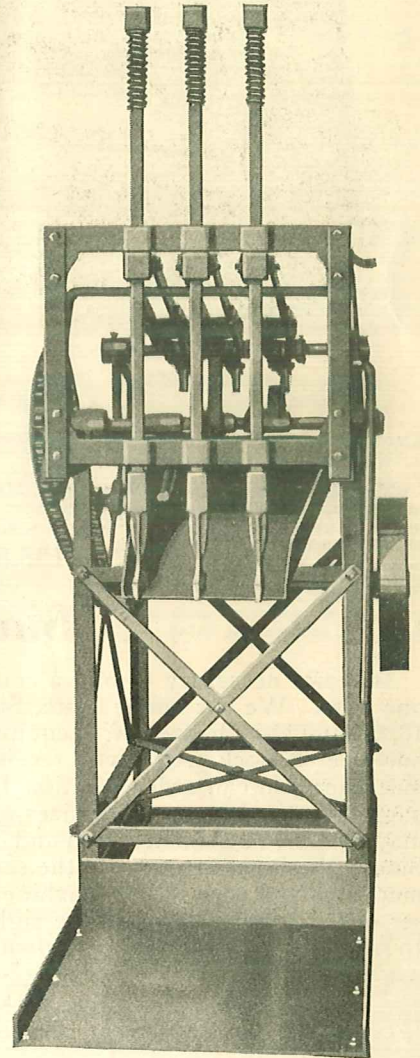
SHIPPED FROM FACTORY IN OHIO.
Price Shown Is for Tamper Only. Block Machine Is Priced on Page 16.



View of Tamper From Left Side.

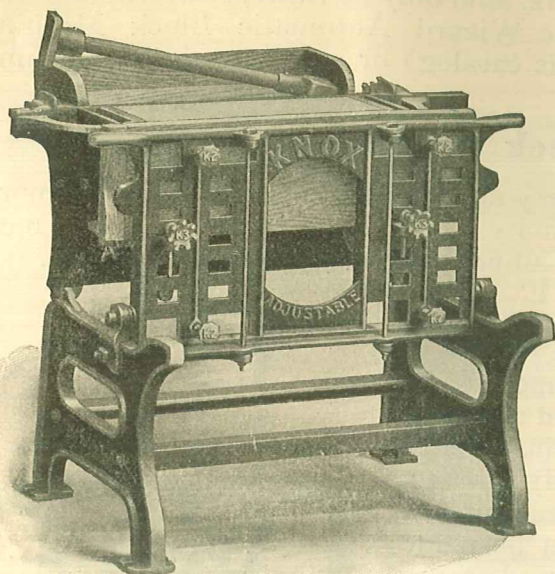


View of Tamper From Right Side.



Front View of Tamper.

Knox Adjustable Block Making Machines



The Knox Adjustable Block Machine is an exceedingly easy working machine, and can be quickly adjusted to make blocks up to 24 inches in length and in widths of 4, 6, 8, 10 and 12 inches, all 8 inches high. Makes blocks face down and either wood or iron pallets can be used.

Specifications.

SIZES OF BLOCKS—Machines are made in three sizes, to make blocks 16, 20 or 24 inches long. The complete outfits, in choice of these three sizes, include all necessary face plates and endgates to make blocks, 4, 6, 8, 10 and 12 inches in width.

CAPACITY—Simplicity of operation insures, under ordinary conditions, a capacity of 200 8x8x16-inch blocks per day, for two men, and nearly as many of the larger sizes.

ADJUSTMENT—Quick, simple adjustment for any size block is provided for on the Knox Adjustable Block Machine. By referring to illustration you will notice four vertical rows of five rectangular holes each. These holes are accurately spaced to hold the brackets on which the face plate is mounted. The face plate used controls the length of the block. The brackets are securely held in position by means of wedges which are tightened and locked by the handwheel screws. Shifting of the brackets and handwheel screws to other holes than shown will change the size of block.

PALLETS—The part of the machine on which the pallet rests is adjustable for pallets of variable thickness. This permits pallets to be made of different thicknesses of lumber and also permits the use of iron pallets. You must have as many pallets as the number of blocks you intend to make in one day.

Prices of Complete Knox Adjustable Block Machines.

Knox Block Making Machine for Blocks 16 Inches Long.

63B5928—Complete 16-Inch Knox Block Making Outfit. Will make blocks 2, 4, 6, 8, 12 and 16 inches in length and any of these lengths 4, 6, 8, 10 and 12 inches in thickness, all 8 inches high. Shipping wt., 675 lbs.

\$135.80

Knox Block Making Machine for Blocks 20 Inches Long.

63B5934—Complete 20-Inch Knox Block Making Outfit. Will make twelve sizes of rock face blocks. Lengths, 5, 10, 15 and 20 inches and any of these lengths 8, 10 and 12 inches in thickness, all 8 inches high. Shipping weight, 750 pounds.

\$141.50

Knox Block Making Machine for Blocks 24 Inches Long.

63B5933—Complete 24-Inch Knox Block Making Outfit. Will make blocks 2, 4, 5, 6, 8, 10, 12, 16, 18, 20 and 24 inches in length and any of these lengths 4, 6, 8, 10 and 12 inches in thickness, all 8 inches high. Shipping weight, 1,075 pounds.

\$224.65

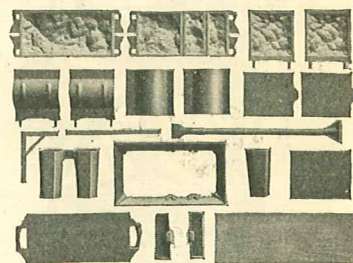
Single Knox Block Machines

It is not necessary to buy a complete Knox outfit at one time. We list below Knox Single Machines in the 16, 20 and 24-inch sizes, with equipment for making only one size of block. After you receive one of these single machines you can order additional supplies, as listed on page 21, to make any other sizes or kinds of blocks you may desire. The construction and operation of the Knox Single Machines are exactly the same as of the complete machines and each single machine is furnished with the set of equipment listed at the right which permits you to make all styles of blocks shown at the bottom of this page in any one size.

Prices of Single Knox Block Machines.

Catalog No.	Size of Blocks	Shipping Weight	Each
63B5925	8x 8x16 inches	425 pounds	\$76.75
63B5926	8x10x16 inches	440 pounds	79.15
63B5927	8x12x16 inches	460 pounds	80.20
63B5935	8x 8x20 inches	440 pounds	80.75
63B5936	8x10x20 inches	460 pounds	84.20
63B5937	8x12x20 inches	485 pounds	87.40
63B5930	8x 8x24 inches	475 pounds	86.30
63B5931	8x10x24 inches	500 pounds	88.40
63B5932	8x12x24 inches	540 pounds	39.50

The illustration at the right shows the standard outfit furnished with the Knox Adjustable Block Machine for making one size of block in whole, half and quarter sizes. Commencing with top row and reading from left to right these parts are as follows:



One Rock Face Plate for whole blocks.

One Rock Face Plate for half and quarter blocks.

Two Rock Endgates for corner and pier blocks.

Two Cored Endgates for regular stretcher blocks.

Two Cored Dividing Plates for half or quarter blocks with core ends.

Two Plain Dividing Plates for half or quarter blocks with straight ends.

One Iron Try Square to enable you to adjust flask true and square.

One Striker to scrape off extra material when block is finished.

One Double End Tamper.

One Double Core for air space in whole blocks (24-inch machines have triple core forming three air spaces in block).

One Combination Hopper and Guide for dividing plates.

One Single Core for air space in half blocks.

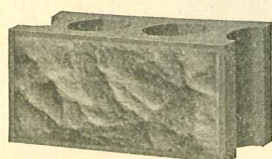
One Dividing Plate for making gable blocks.

One Sample Iron Pallet.

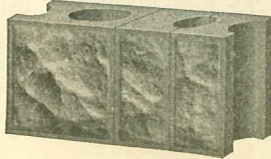
Two Joist Block Attachments.

One Sample Wood Pallet.

These illustrations show the variety of blocks that can be made with any Knox Block Making Outfit.



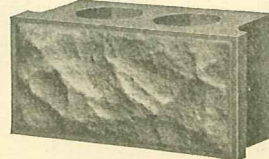
Whole Stretcher Block.



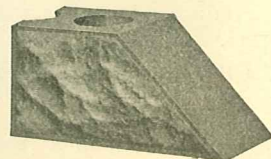
One half block and two quarter blocks at one operation.



Corner Block.



Block with opening for floor joists.



Gable Block.

All these blocks can also be made solid or without core openings.
Any design shown on page 12 can be ordered in place of rock face shown above if desired.

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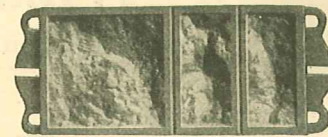
Supplies for Knox Block Machine



Face Plate for Whole Blocks.

Face Plates.

A few additional face plates in various designs should be on hand in every block plant. We can furnish three sizes of plates for the Knox machine and each size can be had for making whole blocks or fractional blocks in various lengths as listed.



Face Plate for Fractional Blocks.

63B5940—16-Inch Face Plate for whole blocks. Mention design wanted. Shipping weight, 17 pounds.....\$4.15

63B5941—16-Inch Face Plate, divided to make fractional blocks as follows: Division A—Divided to make two 4-inch blocks and one 8-inch block. Division B—Divided to make two 8-inch blocks. Division C—Divided to make one 4-inch block and one 12-inch block. Division D—Divided to make one 2-inch block, one 6-inch block and one 8-inch block. Division E—Divided to make full length block with half of face smooth, for use in inside corners. Division F—With division line 12 inches from end, for outside angle bay window blocks.

Mention division and design wanted, otherwise we will send division A, divided for one 8-inch block and for two 4-inch blocks. Shpg. wt., 17 lbs.\$4.15

63B5942—16-Inch Circle Face Plate for curved face blocks for circular bay windows and silos. Furnished to conform with circles of 16, 20 or 24-foot diameter and in plain and rock design. **Mention design and radius wanted.** Shipping weight, 17 pounds.....\$4.15

63B5944—20-Inch Face Plate for whole blocks. Mention design wanted. Shipping weight, 21 pounds.....\$5.25

63B5945—20-Inch Face Plate, divided to make fractional blocks as follows:

Division A—Divided to make two 5-inch blocks and one 10-inch block. Division C—Divided to make one 5-inch and one 15-inch block. Division E—Divided to make full length block with half of face smooth, for use in inside

corners. Division F—With division line 15 inches from end, for outside angle bay window blocks.

Mention division and design wanted, otherwise Division A for one 10-inch block and two 5-inch blocks will be furnished. Shipping weight, 21 lbs..\$5.25

63B5946—20-Inch Circle Face Plate for curved face blocks for circular bay windows and silos. Furnished to make blocks to conform with circles of 16, 20 or 24-foot diameter and in rock and plain designs. **Mention design and radius wanted.** Shipping weight, 21 pounds.....\$5.25

63B5947—24-Inch Face Plate for whole blocks. Mention design wanted. Shipping weight, 26 pounds.....\$6.50

63B5948—24-Inch Face Plate, divided to make fractional blocks as follows:

Division A—Divided to make two 6-inch blocks and one 12-inch block. Division B—Divided to make two 12-inch blocks. Division C—Divided to make one 6-inch and one 18-inch block. Division D—Divided to make one 8-inch and one 16-inch block. Division E—Divided to make full length block with half of face smooth, for use in inside corners. Division F—With division line 18 inches from end, for outside angle bay window blocks. Plate, Division A, for two 6-inch blocks and one 12-inch block will be furnished unless otherwise ordered. **Mention design and division wanted.** Shipping weight, 26 pounds.....\$6.50

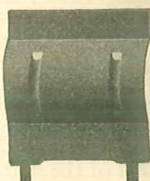
63B5949—24-Inch Circle Face Plate for curved face blocks for circular bay windows and silos. Furnished to make blocks to conform with circles of 16, 20 or 24-foot diameter and in rock and plain designs. **Mention design and radius wanted.** Shipping weight, 26 pounds.....\$6.50

Endgates.



Rock Design Endgate.

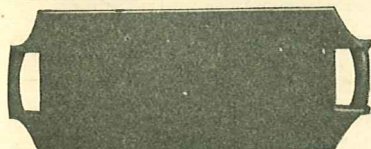
All endgates for the Knox Block Machine are interchangeable and can be furnished in any design for corner blocks, and in cored style for regular stretcher blocks. Be sure to tell us what style or design and order the correct size.



Cored Endgate.

Catalog No.	Size of Endgate	Shipping Weight	Each
63B5950	8x 4 inches	6 pounds	\$2.25
63B5951	8x 6 inches	7 pounds	2.35
63B5952	8x 8 inches	8 pounds	2.48
63B5953	8x10 inches	10 pounds	2.60
63B5954	8x12 inches	12 pounds	2.70

Iron Pallets.



The Knox Block Machine uses wood pallets, but as many prefer to use iron pallets we are prepared to furnish them in many sizes at prices shown below.

Be sure to give correct number and order the proper size.

Catalog No.	Size	Shipping Weight	Each
63B6000	4x16 inches	5 pounds	\$0.86
63B6001	6x16 inches	6 pounds	.97
63B6002	8x16 inches	7 pounds	.86
63B6003	10x16 inches	11 pounds	1.08
63B6004	12x16 inches	16 pounds	1.25
63B6005	4x20 inches	8 pounds	.97
63B6006	6x20 inches	9 pounds	1.19
63B6007	8x20 inches	10 pounds	1.35
63B6008	10x20 inches	12 pounds	1.73
63B6009	12x20 inches	16 pounds	1.78
63B6010	4x24 inches	8 pounds	1.19
63B6011	6x24 inches	15 pounds	1.78
63B6012	8x24 inches	20 pounds	2.37
63B6013	10x24 inches	25 pounds	2.86
63B6014	12x24 inches	30 pounds	3.45

Cores.



Single Core.

Double Core.

Triple Core.

To make the proper air space in the various sizes of blocks it is advisable to have a core for each size of block you make. All cores are made for blocks 8 inches high, the measurements given in the price list being the thickness or width and the length of block. Be sure to select correct size and mention correct catalog number.

SINGLE CORES.

Catalog No.	Size of Block	Shipping Weight	Each
63B5960	8x 8 inches	10 pounds	\$2.85
63B5961	8x10 or 8x12 inches	12 pounds	4.40
63B5963	10x10 or 10x12 inches	15 pounds	4.50
63B5964	12x12 inches	18 pounds	4.85

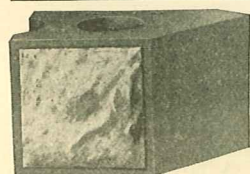
DOUBLE CORES.

Catalog No.	Size of Block	Shipping Weight	Each
63B5965	8x15, 8x16 or 8x18 inches	20 pounds	\$ 5.95
63B5966	10x15, 10x16 or 10x18 inches	30 pounds	7.20
63B5967	12x15, 12x16 or 12x18 inches	35 pounds	8.05
63B5968	8x20 inches	25 pounds	5.95
63B5969	10x20 inches	30 pounds	10.05
63B5970	12x20 inches	35 pounds	11.10

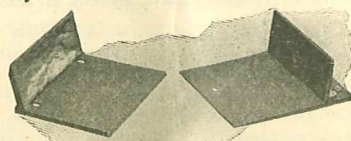
TRIPLE CORES.

Catalog No.	Size of Block	Shipping Weight	Each
63B5971	8x24 inches	30 pounds	\$10.05
63B5972	10x24 inches	35 pounds	12.10
63B5973	12x24 inches	45 pounds	13.15

Bay Window Construction.



Inside Angle.



Outside Angle.

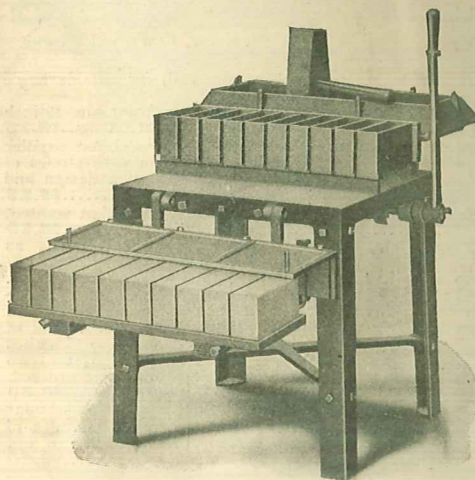
To make bay window blocks it is necessary to have a pair of bay window angle plates of the proper size, a face plate divided for half blocks for making inside angle blocks, and one plate with division line three-fourths the length of the plate for outside angle blocks. If you have no face plates properly divided, be sure to order from list above. A pair of angle plates and the face plates referred to in above description will enable you to make bay window blocks for inside and outside angles as illustrated. Be sure to tell us what design is wanted and order the correct size.

Catalog No.	Thickness of Block	Shipping Weight	Each
63B6020	4 inches	14 pounds	\$4.05
63B6021	6 inches	16 pounds	4.20
63B6022	8 inches	18 pounds	4.30
63B6023	10 inches	18 pounds	4.40
63B6024	12 inches	20 pounds	4.50

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Wizard Two-Way Brick Machine

Makes Concrete Brick Face Down or Face Up. Capacity, 4,000 Brick per Day.

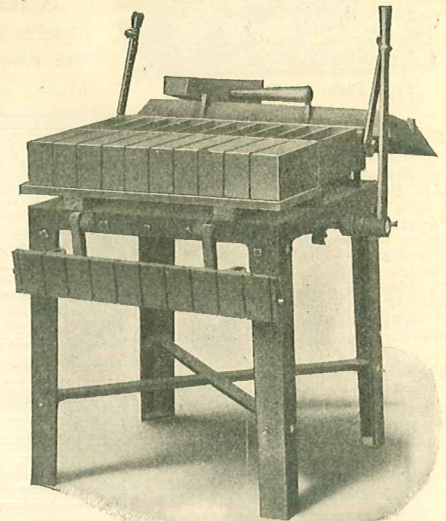


Showing method of delivery of ten brick when made the face down way.

Concrete brick have become very popular. They can be made as cheap or cheaper than clay brick, are handsomer in appearance, more durable, and better in every respect. No concrete block plant is complete without a brick machine. Our Wizard Two-Way Brick Machine is the machine we strongly recommend for making concrete brick. We call it a two-way machine because you can make brick either face down or face up, the latter method being almost twice as fast as the former. When brick are made face down the face can be colored or made in many fancy designs. You can also use a better mixture for the facing, making the brick so that it will compare with the highest priced pressed brick. For wall backing and to compete with common clay brick the brick can be made face up very rapidly.

Cost of Concrete Brick.

To make 1,000 common concrete brick would require: $2\frac{1}{5}$ barrels cement, $15\frac{1}{2}$ yards sand. Labor—two men, one-third day each.



Ten brick made the face up way on the pallet, ready to be taken from the machine.

SPECIFICATIONS

CONSTRUCTION—The Wizard Two-Way Brick Machine is well built throughout to give many years of continuous service. The dividing plates are accurately ground and finished and, while tamping, are firmly locked on the front plate so they cannot be forced out of place, thereby insuring perfect brick. The dividing plates are attached to a framework which is moved back and forth by a rack or cog bar underneath the machine.

OPERATION—When making brick face down the brick are shaped, tamped and smoothed off in the usual way on a planed bed which forms the top of the machine. A pallet is then placed on top, the dividing plates are withdrawn, the framework carrying the brick is next turned over, as shown in the illustration above at the left, and the bricks are then carried away on the pallet. When making ornamental face brick the ornamental face plates are picked loose from the brick as soon as they are turned

over. One set of ten face plates is required to make a machine full of ornamental face brick at each operation. To make brick face up the planed bed is removed and the pallet placed on the bed of the machine. The bricks are tamped and smoothed off in the usual way, the dividing plates withdrawn and the bricks are then carried away on the pallet.

SIZE OF BRICK—All bricks are accurately made $2\frac{1}{4} \times 4 \times 8\frac{1}{4}$ inches.

CAPACITY—4,000 perfect brick per day, for two men.

EQUIPMENT—With each machine we furnish a mallet, tamper, steel striker, two sample wood pallets and a hopper.

63B5890—Wizard Two-Way Brick Machine. \$110.00
Shipping weight, 450 pounds.....

Face Plates to Make Ornamental Brick

We can furnish ornamental face plates for our Wizard Two-Way Brick Machine in any of the handsome designs shown below. You need one face plate for each brick. To make brick

with return ends to match the face plate you will require a special end and face plate to match for each brick. When ordering please be sure to specify design of plates you wish.



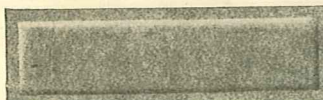
Rock Design. No. 1.

63B5891—Ornamental Face Plate for Wizard Two-Way Brick Machine. Shipping weight, each, 2 pounds. Per plate..... \$0.85

63B5893—Ornamental Plates for Making Return End Corner Brick. Shipping weight, per pair, 3 pounds. Per pair..... 1.55



Block Scroll. No. 22.



Panel Design. No. 6.



Rope Design. No. 15.



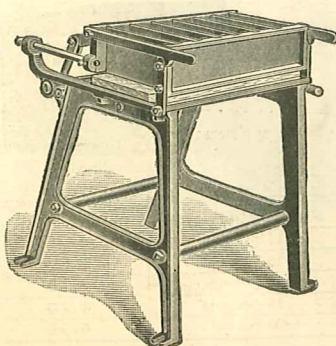
Oval Face. No. 20.



Pyramid Design. No. 21.

Triumph Six-Brick Machine

Capacity, 1,500 Brick per Day, One Man.



This is an exceptionally well made but low priced machine. The front and back walls are accurately made machined castings, while the division plates are of heavy steel accurately ground to size. Brick made on this machine measure $2\frac{1}{4} \times 4 \times 8\frac{1}{4}$ inches. One man can make from 1,500 to 2,000 brick per day on this machine. The dividing plates are securely attached to the back wall and withdraw through a slotted steel plate. The back wall is drawn back by a simple lever movement and it is guided by steel rods operating in babbitted bearings. A latch on each side locks the machine securely when brick are being formed.

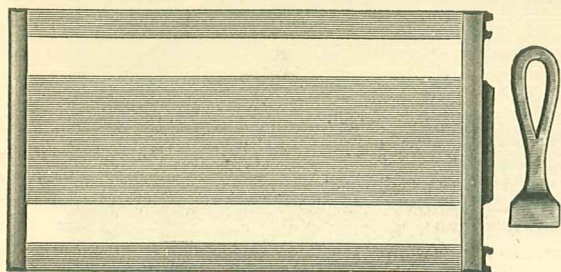
You can make ornamental brick on this machine, but as no means are provided for turning the brick they must be allowed to rest on the ornamental plate until they have become hard enough to move. This takes from twelve to twenty-four hours. If you wish to make ornamental brick it will be necessary to supply yourself with one ornamental face plate for each brick you desire to make in the course of a day. One sample wood pallet is furnished with each machine.

63B5765—Triumph Six-Brick Machine. \$45.00
Shipping weight, 150 pounds.....

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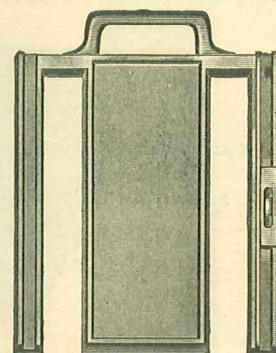
Supplies for Concrete Block Makers

Triumph Mortar Gauges for Laying Concrete Blocks, Brick or Porch Columns



These tools enable the amateur worker to make a perfect job of laying blocks and enable the expert to lay them faster, easier and better than by any other method. In addition, the face of the wall is kept clean and a groove of even width and depth is had between the blocks, forming a secure anchor for the beading or tuckpointing. Two gauges are furnished, one for the horizontal bed of mortar and one for placing mortar on the ends of the block.

The horizontal gauge is made with a flange on one side which is placed against the side of the block. The openings are filled with mortar and then struck off with a straight edge trowel and the gauge removed. This leaves an even line of mortar on the front and back of the block exactly $\frac{1}{4}$ inch



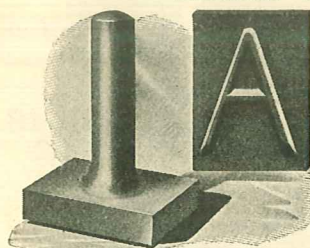
thick ready for the placing of the block. The end gauge is used in much the same manner, flange being pressed up against the side of the block, the mortar spread in the two openings of the gauge and struck off. The tool is removed, leaving exactly $\frac{1}{4}$ inch of mortar on the ends of the block ready for the next block to be placed up against it. End gauge is also fitted with level glass.

63B5694—Triumph Mortar Gauge for laying blocks 8 inches thick. Shipping weight, 6 pounds. Per set..... **\$ 9.85**
63B5695—Triumph Mortar Gauge for laying blocks 9 inches thick. Shipping weight, 7 pounds. Per set..... **11.35**

The Triumph Mortar Gauges are made of aluminum and are very light and easily handled, yet strong enough to stand everyday continual use. The tools are carefully finished and sized. With each set of block tools we include a reversible handle, which is instantly attached or detached from the horizontal gauge, making it very convenient to place on or take off from the block.

63B5696—Triumph Mortar Gauge for laying blocks 10 inches thick. Shipping weight, 8 pounds. Per set..... **\$11.85**
63B5697—Triumph Mortar Gauge for laying blocks 12 inches thick. Shipping weight, 10 pounds. Per set..... **12.70**

Mark Your Blocks



In many localities the law requires all blocks to be marked with the initials or name of the block manufacturer as a means of identification. The stamp here illustrated is a simple but efficient way of doing this. The letters are 3 inches high, of plain block type, designed so they will mark the concrete and withdraw easily and leave a perfect impression. Can be furnished in stamps of single letters, as shown, or will make one stamp of several letters. Mention which is wanted when ordering, otherwise will furnish all on one stamp. Letters are reversed so they will show properly when impressed in the block. Weight, single letter stamp, 4 pounds.

Additional letters will add 2 pounds per letter. When ordering print letters desired carefully so no mistake will be made.

63B5807—Block Marking Stamp. Per letter..... **\$1.80**

Tampers



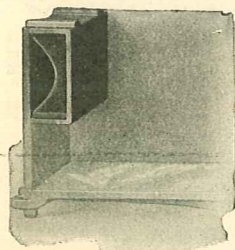
Extra tampers for making blocks and other products. Well made of No. 1 gray iron castings, nicely finished and securely mounted on hardwood handles. We have two sizes.

63B5676—Regular Double End Tamper. Sharp end measures $2\frac{1}{2}$ inches wide and $\frac{1}{2}$ inch thick; square end measures $2\frac{1}{2}$ inches wide and 4 inches long. Shipping weight, 5 pounds..... **\$1.60**

63B5677—Extra Heavy Double End Tamper. Sharp end measures 4 inches wide and $1\frac{1}{2}$ inches thick; square end measures $3\frac{3}{4}$ inches wide and $4\frac{1}{2}$ inches long. Shipping weight, 9 pounds..... **\$2.15**

Window Jamb Block Attachment

For Any of Our Block Machines.



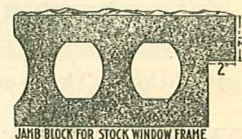
This attachment is hung over a plain endgate in the machine and enables you to make a block with opening as shown in illustration at the right, which is just the proper size to hold a stock window frame for concrete block buildings. To use this attachment you must have a plain endgate for your machine, so be sure to order one unless you already have it. The offset measures $3\frac{3}{4}$ inches from the face of the block and is 2 inches wide as shown. This attachment is made for blocks 8 inches high.

63B5606—8-Inch Jamb Block Attachment for blocks 8 inches thick. Shipping weight, 8 pounds..... **\$1.50**

63B5607—9-Inch Jamb Block Attachment for blocks 9 inches thick. Shipping weight, 10 pounds..... **1.50**

63B5608—10-Inch Jamb Block Attachment for blocks 10 inches thick. Shipping weight, 12 pounds..... **\$1.55**

63B5609—12-Inch Jamb Block Attachment for blocks 12 inches thick. Shipping weight, 15 pounds..... **1.55**



ALL THE ABOVE ARTICLES ARE SHIPPED FROM OUR FACTORY IN OHIO.

Medusa Waterproofing Compound

You can make your concrete products and all concrete construction absolutely waterproof by using our Medusa Waterproofing Compound according to instructions.

To meet the demand for a reliable waterproofing compound we have arranged to furnish the well known Medusa Waterproofing Compound made by the Sandusky Portland Cement Co. This material is a fine white powder and is mixed with the cement in the proportion of 2 pounds of waterproofing compound to one bag of cement.

The dry powder should be added to the dry cement and the two mixed thoroughly. This mixture is now waterproofed cement. This waterproofed cement is mixed with the sand and gravel in the usual way.

In most cases it is only necessary to use the waterproofed cement in the facing, and a facing mixture made up of one part of waterproofed cement with two parts of clean sharp sand will make absolutely waterproof blocks.

Therefore it costs very little extra to use waterproofing. Cement mortar should be made with waterproofed cement. Water is not added until the waterproofed cement, sand and gravel have been thoroughly mixed. This waterproofing compound is recommended for any kind of concrete work where a waterproof job is desired. It has been successfully used for making waterproof stucco plaster, concrete blocks and other products, roofing tile, cellar walls, cistern, tank and tunnel linings and many others. It is the material to use wherever a waterproof concrete is required. Medusa Waterproofing Compound is put up in 40-pound sacks and is shipped from BAY BRIDGE, OHIO, SYRACUSE, IND., DIXON, ILL., or YORK, PENNA. A 40-pound bag is sufficient to waterproof five barrels of cement.

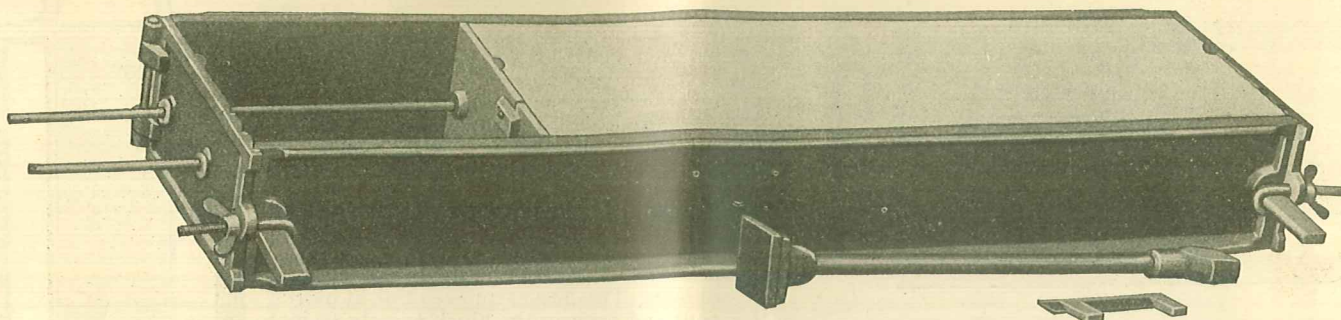
63B6150—Medusa Waterproofing Compound.
Per 40-pound bag..... **\$5.90**



Badger Adjustable Sill and Cap Machine

The Badger Adjustable Sill and Cap Machine used for the making of window sills or caps, steps, water table and coping blocks, can be adjusted very easily for making stones of any length from 2 to 5 feet and in widths of 8, 10, 12 or 14 inches.

Adjustments are made quickly by means of the stop off plate with rods attached for the length and by small stop off pieces which can be attached or taken off the end plate for the width.



Easy to Adjust for Any Size

To change the length, loosen the set screws in the set collars on the adjusting rods and set the end stop off plate to make whatever length of stone you want; slide the set collars up against the endgate and tighten the set screws.

To change the width, remove the stop off extension pieces by loosening the two screws, making a stop off piece as long as you want the stone to be wide. The front plate will then come up snugly against the stop off piece and is held in notches in the endgates at each end.

The Badger Machine makes stones $7\frac{3}{4}$ inches high, so that they lay up in the wall to match properly with blocks measuring $7\frac{3}{4}$ inches high or 8 inches with mortar joint.

No Stand or Pallets Needed

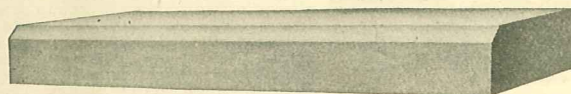
No stand is required for the Badger Adjustable Sill and Cap Machine. The stones can be made on any smooth floor or plank. If you wish you can make the stone right in the wall, and no handling of the stone will be necessary. It is a great deal safer and easier to move the machine from a stone of the size that is made on this machine than it is to carry the stone from the machine. Our method does away with the expense of pallets, which would have to be of 2-inch lumber, and means a big saving in its use.

For making caps or steps we recommend that you use four or six pieces of $\frac{3}{8}$ or $\frac{1}{2}$ -inch iron rod placed near the top and near the bottom of the stone to reinforce the stone.

63B5810—Badger Adjustable Sill and Cap Machine. Shipping weight, 180 pounds..... **\$29.45**



A sill stone made by inserting wood block in mold to form watershed.



A water table stone made by placing a triangular strip in corner of mold.

We do not furnish wood strips for Sill and Water Table as illustrated. You can easily make these yourself.

Special Face Designs for the Badger Sill and Cap Machine

Ornamental stones as illustrated below can be made on the Badger Sill and Cap Machine by means of the extra face plates listed below. These ornamental stones are also adapted for belt courses around a building.



Rock Face Design Cap or Lintel Stone.



Panel Face Design Cap or Lintel Stone.



Tooled Edge Rock Design Cap or Lintel Stone.



Tooled Face Design Cap or Lintel Stone.



Tooled Edge Bushhammer Design Cap or Lintel Stone.



Scroll Face Design Cap or Lintel Stone.

To turn corners in any of these designs put a strip of wood or steel across one corner of the mold box and make mitered ends on the stone.

63B5811—Extra Face Plates. State design wanted. Shipping weight, 55 pounds. Each..... **\$11.60**

ALL ARTICLES ON THIS PAGE SHIPPED FROM FACTORY IN OHIO.

Porch Column Outfits

To Make Porch Columns, Piers and Balustrades

Your plant is not complete without them and you lose money if you do not add molds to your equipment for this class of work. You can easily create a big demand for porch material and the profits are large.

Save Money on Your Equipment

By assembling these outfits in large quantities we are able to make a saving, which we give you. Save money by buying a complete outfit which will enable you to furnish a complete line of handsome porch materials.

All these molds are fully described and priced separately below and on the following page.

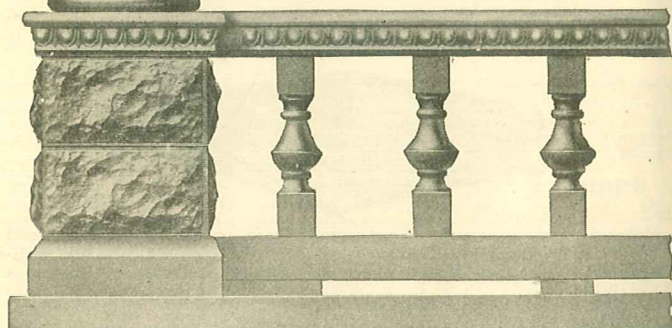
The size of each mold is made to match the other molds in the outfit, so the completed porch will be symmetrical. Each outfit contains the following molds:

	Price if Bought Separately	
	10-Inch Size	12-Inch Size
One Combination Plain and Fitted Column Mold.....	\$20.70	\$23.75
One Baluster Mold Complete.....	4.80	4.80
One Baluster Pallet.....	2.40	2.40
One Ornamental Capital Mold.....	15.35	20.70
One Column Base Mold.....	7.65	11.10
One Pier Body Mold.....	12.50	13.40
One Pier Cap Mold.....	8.95	10.80
One Pier Base Mold.....	9.60	11.50
One Top Rail Mold.....	7.65	7.65
One Bottom Rail Mold.....	8.65	8.65
One Watershed Block Mold.....	.43	.43
One Core for forming recess for top rail in pier cap.....	.43	.43
One Core for recess in rails for baluster ends.....		
Total cost if bought separately.....	\$99.11	\$115.61
Price for outfit complete.....	87.00	102.00
Saving if bought together.....	\$12.11	\$13.61

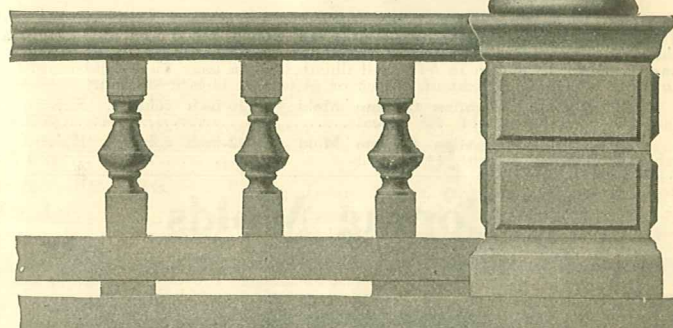
63B5830—Porch Outfit, nine molds, complete for 10-inch column. Shipping weight, 632 pounds\$87.00

63B5831—Porch Outfit, nine molds, complete for 12-inch column. Shipping weight, 760 pounds\$102.00

Be sure to mention design where necessary.



The above shows what a handsome porch can be made with these outfits, using our Ionic Capital Mold, Fluted Column Mold, Rock Face Pier Body and Egg and Dart Pier Cap and Rail.



Another example of porch construction from products made with these outfits, using our Capital Mold, Plain Column, Panel Pier Body and Plain Pier Cap and Rail.

Complete Balustrade Outfit.

An outfit of perfectly designed, well fitted molds that make all the needed stones for handsome balustrade or railings around porches, terraces, bridges, lawns, etc. The outfit consists of one top rail mold, either plain or egg and dart, as illustrated (only one furnished; please mention which you want); one bottom rail mold, with watershed mold, one core for making recess in top and bottom rails for ends of balusters, one baluster mold and six extra baluster pallets. All molds exactly as described below. Shipping weight, 175 pounds.

63B5851—Complete Balustrade Outfit.....\$36.55

Egg and Dart Top Rail Mold.



Makes an attractive and beautiful rail. Used in porch work, ornamental fence and baluster rails for bridges, terraces, lawns, etc. Illustration of porch column above shows appearance of product of this mold. Stone is 4 inches high, 5 1/2 inches wide at top, 4 inches wide at bottom and 24 inches long. A cubic yard of concrete will make 200 feet of this rail. Shipping weight, 40 pounds.

63B5852—Egg and Dart Top Rail Mold.....\$7.65

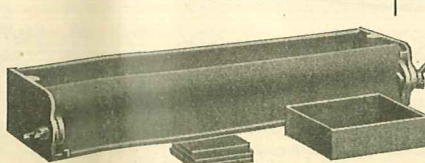
Plain Top Rail Mold.



This mold is same size as the egg and dart mold described above. Porch rail to the right in large illustration above shows the finished product. A cubic yard of concrete will make 200 feet of this rail. Shipping weight, 40 pounds.

63B5853—Plain Top Rail Mold.....\$7.65

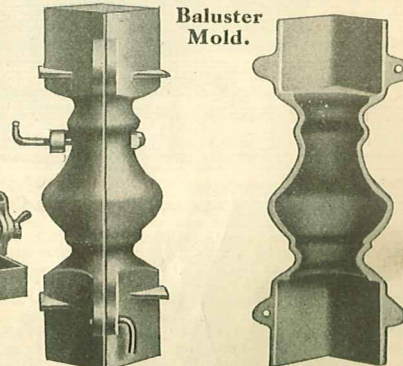
Bottom Rail Mold.



This mold makes bottom rail used in porch work and balustrades. It matches perfectly the top rail described to the left, and the baluster described to the right. Mold is well fitted together and releases easily from the product, which is left where made till hard enough to move. With each mold we furnish a small iron mold for making square blocks on which to set the bottom rail so water will drain under them, as shown in the large porch illustration above. Makes stone 4 inches high, 6 inches wide and 24 inches long. A cubic yard of concrete will make 162 feet of this rail. Shipping weight 40 pounds.

63B5854—Bottom Rail Mold.....\$8.65

Baluster Mold.



This makes a very artistic baluster with round bell shape shaft and square ends. Can be used for any purpose where a baluster is needed. Baluster must remain in half the mold, called a pallet, until hard enough to remove. Baluster is 3 1/2 inches square at top and bottom, 5 1/2 inches in diameter at the widest part of round bell and 17 inches high. A cubic yard of concrete will make 225 balusters. Shipping weight, 25 pounds.

63B5855—Baluster Mold.....\$4.80

One pallet is needed for every baluster you make in a day.

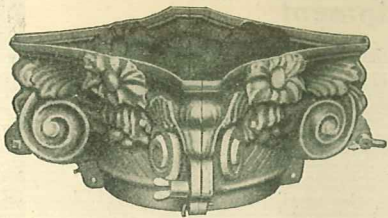
63B5857—Baluster Pallet. Shipping weight, 13 pounds.....\$2.40

ALL ARTICLES ON THIS PAGE ARE SHIPPED FROM FACTORY IN OHIO.

Porch Molds for Columns and Piers

Each mold is complete as illustrated and fitted ready to make the various parts of a column or pier.
Make the stones on any flat surface. No pallets needed.

Ionic Capital Mold.

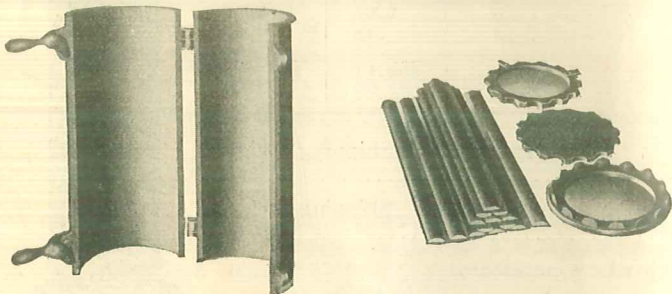


The design of these molds is a deep cut handsome one and makes a product that has the appearance of cut stone. The deep portions are so placed and designed as to release easily. Matches up perfectly with columns of 10 inches and 12 inches in diameter. A cubic yard of concrete will make twenty-seven capitals for 10-inch column or eighteen for 12-inch column. Be sure to order correct size.

63B5836A—Ionic Capital Mold for 10-inch column. Makes cap 9 inches high. Shipping weight, 75 pounds.....\$15.35

63B5846A—Ionic Capital Mold for 12-inch column. Makes cap 10 inches high. Shipping weight, 90 pounds.....\$20.70

Combination Column Mold.



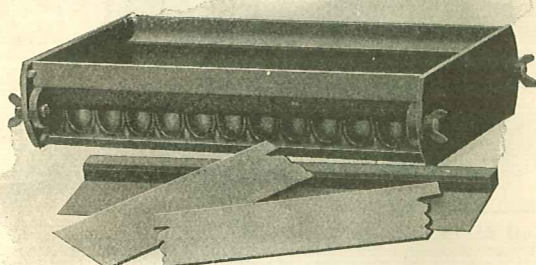
This Combination Column Mold will make plain or fluted columns, the flutes being obtained by means of separate strips, pallet and guide ring, as shown. A stop off ring is also furnished for forming stop off flutes in column base and cap, as shown in left hand illustration on page 25. A cubic yard of concrete will make 50 feet of 10-inch or 34 feet of 12-inch column.

63B5835—Combination Column Mold for 10-inch column. Height, 24 inches. Shipping weight, 125 pounds.....\$20.70

63B5845—Combination Column Mold for 12-inch column. Height, 24 inches. Shipping weight, 140 pounds.....\$23.75

Coping Molds

Finish the Top of Your Block Walls With an Ornamental Coping.



Egg and Dart Design Coping Mold.

These molds make a coping stone that can be used to good advantage on any concrete wall. Each mold will make stones 2 feet long, 5 inches thick, 10 inches wide at bottom and 11½ inches wide at top. Both 24-inch side plates of these molds are alike, so stones with ornamental front and back can be made, which is a very desirable feature when cap stone for a concrete block fence is desired. If stone is to be used as coping on a flat roof building, so only one ornamental face is required, the long filler plate is inserted against the back plate. To turn corners the dividing plate is placed diagonally across one corner, making a stone with mitered end. Miter plates are furnished to make miter ends on stone where one or both sides are ornamental. To make one end and both sides with design as would be required in porch rail and fence work, the special end plate is needed. We especially recommend the Egg and Dart design.

63B5767—Egg and Dart Coping Mold, complete with filler and dividing plates. Shipping weight, 65 pounds.....\$11.00

63B5766—Egg and Dart End Plate. Shipping weight, 12 pounds... 3.35

Egg and Dart Pier Cap Mold.



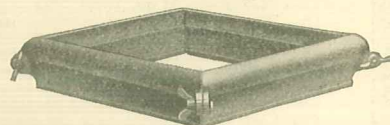
This mold makes a square stone, used as a cap on a square porch pier or column. Be sure to order the correct size.

63B5816A—Egg and Dart Pier Cap Mold. 13 inches square at bottom, 15 inches square at top, 4 inches high. To be used on pier 12 inches square. Makes eighty-one to the cubic yard of concrete. Shipping wt., 35 lbs...\$7.90

63B5839A—Egg and Dart Pier Cap Mold. 15 inches square at bottom, 17 inches square at top, 4 inches high. To be used on pier 14 inches square and in connection with round column 10 inches in diameter. Makes forty-six to the cubic yard of concrete. Shipping weight, 40 pounds.....\$8.95

63B5849A—Egg and Dart Pier Cap Mold. 17 inches square at bottom, 19 inches square at top, 4 inches high. To be used on pier 16 inches square and in connection with round column 12 inches in diameter. Makes thirty-six to the cubic yard of concrete. Shipping weight, 50 pounds.....\$10.80

Plain Pier Cap Mold.



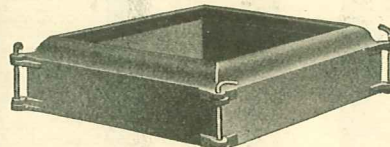
This mold will make about the same number of stones to the yard of concrete as Egg and Dart molds above.

63B5816B—Plain Pier Cap Mold. 13 inches square at bottom, 15 inches square at top, 4 inches high. To be used on pier 12 inches square. Shipping weight, 35 pounds.....\$7.90

63B5839B—Plain Pier Cap Mold. 15 inches square at bottom, 17 inches square at top, 4 inches high. To be used on pier 14 inches square and in connection with round column 10 inches in diameter. Shipping weight, 40 pounds\$8.95

63B5849B—Plain Pier Cap Mold. 17 inches square at bottom, 19 inches square at top, 4 inches high. To be used on pier 16 inches square and in connection with round column 12 inches in diameter. Shipping weight, 50 pounds\$10.80

Pier Base Mold.

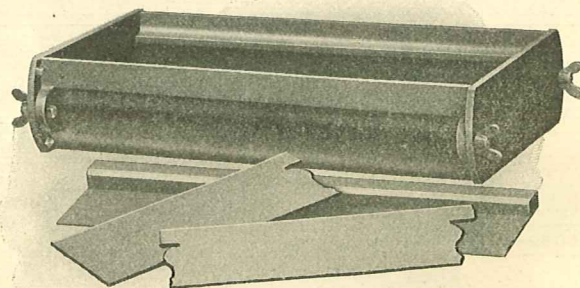


Makes a square base stone in the popular O. G. pattern, on which to build piers, gate posts and square columns. Be sure to order the size you want.

63B5840—Pier Base Mold to match pier blocks 12 inches square. Measures 12 inches square at the top, 15 inches square at the bottom and 5¼ inches high. Makes forty-one to the cubic yard of concrete. Shipping wt., 40 lbs...\$8.40

63B5837—Pier Base Mold to match pier blocks 14 inches square. Measures 14 inches square at the top, 17 inches square at the bottom and 5¼ inches high. Makes thirty-two to the cubic yard of concrete. Shipping weight, 45 pounds\$9.60

63B5847—Pier Base Mold to match pier blocks 16 inches square. Measures 16 inches square at the top, 19 inches square at the bottom and 5¼ inches high. Makes twenty-six to the cubic yard of concrete. Shpg. wt., 50 lbs...\$11.50



Plain Design Coping Mold.

63B5768—Plain Design Coping Mold, complete with filler and dividing plates. Shipping weight, 65 pounds.....\$11.00

63B5769—Plain End Plate. Shipping weight, 12 pounds..... 3.35

ALL ARTICLES ON THIS PAGE ARE SHIPPED FROM FACTORY IN OHIO.

Molds for Porch Columns

Every Concrete Manufacturer Should Have Them

Our Triumph Molds for porch columns, gate posts, piers and ornamental work are high grade but low priced molds, and although our prices are lower than what is usually asked for molds of similar design we guarantee the quality of material and workmanship to be perfect.

Big profits can be made with an outfit such as we show on this page and on pages 25 and 26. The porch column and gate post illustrated are examples of what can be done with our regular outfit. This class of material commands a higher price and hence yields bigger profits than concrete blocks or brick.

Look at the saving you make when you buy a complete outfit. The Triumph Porch Outfits contain the following molds from our regular stock, which sell at prices shown when ordered separately:

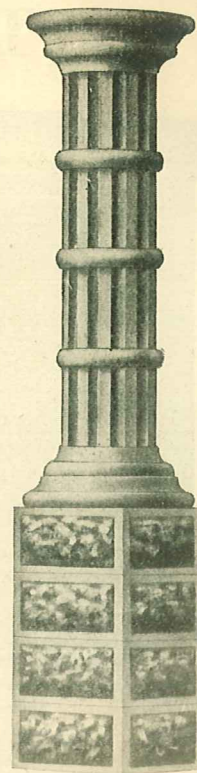
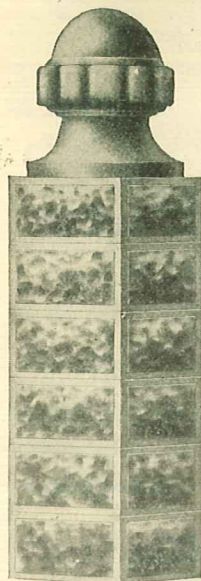
	Price When Bought Separately	
	For 10-In. Column	For 12-In. Column
1 Column Mold. State whether plain or fluted.....	\$ 8.25	\$11.00
1 Column Cap and Base Mold.....	7.65	11.10
1 Ring Mold.....	4.60	6.40
1 Pier Mold. State design wanted.....	12.50	13.40
1 Ball Mold. State whether ornamental or plain.....	10.90	14.15
Total cost if bought separately.....	\$43.90	\$56.05
Price when outfit ordered complete.....	40.20	52.25
Saving you make.....	\$ 3.70	\$ 3.80

Be sure to specify designs you want so no mistake will be made in filling your order. If not otherwise ordered we will furnish fluted column mold, rock pier body mold, and ornamental ball mold as illustrated.

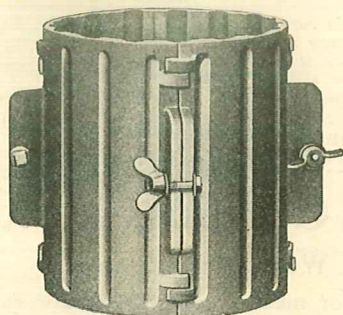
Price List Triumph Porch Column and Gate Post Outfit.

63B5776—Triumph Porch Column and Gate Post Outfit for 10-inch column.
Shipping weight, complete, 200 pounds. Five molds, complete..... \$40.20

63B5777—Triumph Porch Column and Gate Post Outfit for 12-inch column.
Shipping weight, complete, 375 pounds. Five molds, complete..... 52.25



Triumph Column Mold.



This mold is well made of accurately fitted castings and can be assembled or taken apart easily and quickly. Furnished in two sizes, as listed, and in either fluted design as illustrated, or plain design. Mention which you want. Fluted design furnished unless otherwise ordered.

63B5770—Triumph Column Mold, 10 inches in diameter, 12 inches high. State whether plain or fluted is desired. Shipping weight, 45 pounds.....\$8.25

63B5771—Triumph Column Mold, 12 inches in diameter, 12 inches high. State whether plain or fluted is desired. Shipping weight, 65 pounds.....\$11.00

Triumph Ring Mold.



Placed in between column sections as illustrated above, it adds to the beauty of the column. Also used as supporting slab for small vases and other ornamental work.

63B5773—Triumph Ring Mold to match 10-inch column. Shipping weight, 20 pounds.....\$4.60

63B5772—Triumph Ring Mold to match 12-inch column. Shipping weight, 30 pounds.....\$6.40

Triumph Column Cap and Base Mold.

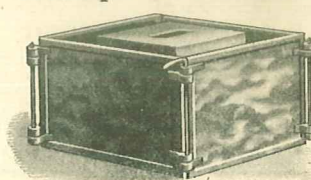


Forms cap or base of column as illustrated above. Can also be used under small vases and other ornaments.

63B5834—Triumph Column Cap and Base Mold for 10-inch column. Shipping weight, 40 lbs.\$7.65

63B5844—Triumph Column Cap and Base Mold for 12-inch column. Shipping wt., 50 lbs..\$11.10

Triumph Pier Molds.



A well made mold for making square blocks used for porches, foundation piers, gate posts, etc. Three corners are bolted together with hinge joints and one corner pinned as illustrated. To release mold from stone, pull out pin and open away from stone. Furnished in the following designs: Rock, plain, panel, tooled, edge rock, tooled edge bushhammer or cobblestone. Be sure to order design you want. Rock design furnished unless otherwise specified. All sizes are 7 3/4 inches high.

63B5817—Triumph Pier Mold, 10x10 inches, with core 6 inches square. State design wanted. Shipping weight, 50 pounds.....\$10.25

63B5833—Triumph Pier Mold, 12x12 inches, with core 6 inches square. State design wanted. Shipping weight, 60 pounds.....\$12.00

63B5838—Triumph Pier Mold, used with 10-inch round column, 14x14 inches, with core 8 inches square. State design wanted. Shipping weight, 75 pounds.....\$12.50

63B5848—Triumph Pier Mold, used with 12-inch round column, 16x16 inches, with core 8 inches square. State design wanted. Shipping weight, 100 pounds.....\$13.40

Ball Molds

These molds are well fitted and furnished in two designs and sizes as described. They are designed to release easily and without damaging the finished product.

63B5778—Ornamental Ball Mold to match 10-inch column. Base, 12 inches in diameter; height, 12 inches; ball, 9 1/2 inches in diameter. Shipping weight, 50 lbs..\$10.95

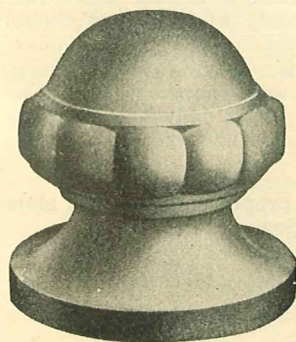
63B5779—Ornamental Ball Mold to match 12-inch column. Base, 14 inches in diameter; height, 14 inches; ball, 11 inches in diameter. Shipping weight, 65 lbs..\$14.80

63B5797—Plain Ball Mold to match 10-inch column. Ball, 6 inches in diameter; base, 6 inches square; total height, 12 inches. Shipping weight, 40 pounds.....\$8.90

63B5798—Plain Ball Mold to match 10-inch column. Ball, 10 inches in diameter; base, 12 inches square; total height, 16 inches. Shipping weight, 50 pounds.....\$10.90

63B5799—Plain Ball Mold to match 12-inch column. Ball, 10 inches in diameter; base, 14 inches square; total height, 18 inches. Shipping weight, 65 pounds.....\$14.15

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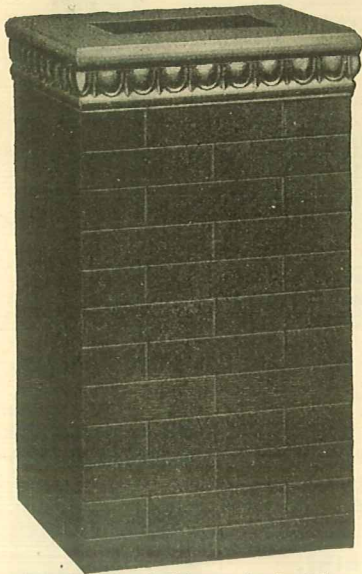
Ball made in our ornamental ball mold.



Plain ball mold.

Triumph Pier and Chimney Mold

Makes Strong Chimneys at a Big Saving Over Other Methods.

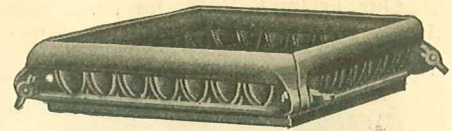


The Completed Chimney Looks Like This.

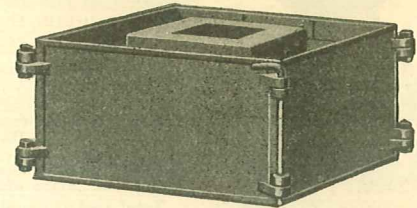
Concrete is one of the best materials that can be obtained for chimney construction. Many large factories are using chimneys of reinforced concrete, and concrete chimneys built of blocks are very desirable on dwellings and store buildings. The mold shown in the illustration forms a section of the chimney complete at one molding. All four sides are alike. If you are building your own house it would pay you to buy this machine and make the chimney blocks on it. You can use these blocks for supporting the porches and for the foundation. The cap mold makes stone suitable for finishing top of chimney, gate posts or porch piers.

These molds are made of No. 1 quality gray iron castings accurately fitted together. When closed they lock up perfectly true and square. The core tapers slightly, making it very easy to withdraw it.

We can furnish our Triumph Pier and Chimney Mold in brick face design (as illustrated), plain face or rock face. The Cap Mold can be furnished in plain design or egg and dart design, as illustrated. Be sure to tell us which you want when you place your order, otherwise we will furnish brick chimney mold and egg and dart cap mold. Chimney blocks can be made on any smooth floor, no pallets being necessary.



The Chimney Cap Mold.

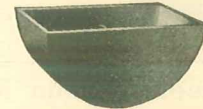


The Pier and Chimney Block Mold.

Prices and Sizes of the Triumph Pier and Chimney Mold.
Be sure to give catalog number, design and price of the size mold you want.

Size of Block	Pier and Chimney Mold With Core All Sizes Are 7 3/4 Inches High			Chimney Cap Mold, No Core Furnished All Sizes Are 4 Inches High		
	Catalog No.	Shipping Weight	Each	Catalog No.	Shipping Weight	Each
Outside, 16x16 inches.... Flue opening, 8x8 inches.	63B5750	90 pounds	\$13.70	63B5783	50 pounds	\$10.10
Outside, 16x20 inches.... Flue opening, 8x12 inches.	63B5753	100 pounds	15.10	63B5786	55 pounds	10.55
Outside, 16x24 inches.... Flue opening, 8x16 inches.	63B5751	110 pounds	16.80	63B5784	65 pounds	11.55
Outside, 20x24 inches.... Flue opening, 12x16 inches	63B5752	120 pounds	23.20	63B5785	80 pounds	13.00

Stovepipe Core.



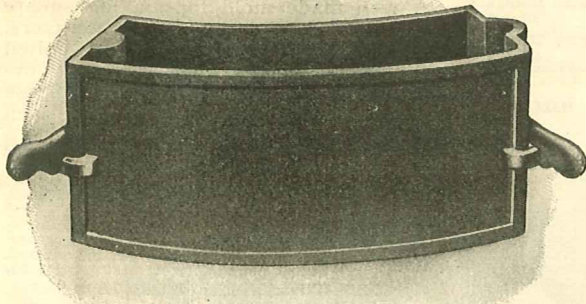
This core can be used in any of the Triumph Chimney Molds to make an opening in the block for the stovepipe. The opening is a half circle in shape, and two blocks are laid with the openings together, forming a full circular opening for the stovepipe. Made for 6-inch stovepipe only.

63B5804—Pipe Core. Shipping weight, 5 pounds..... \$1.35

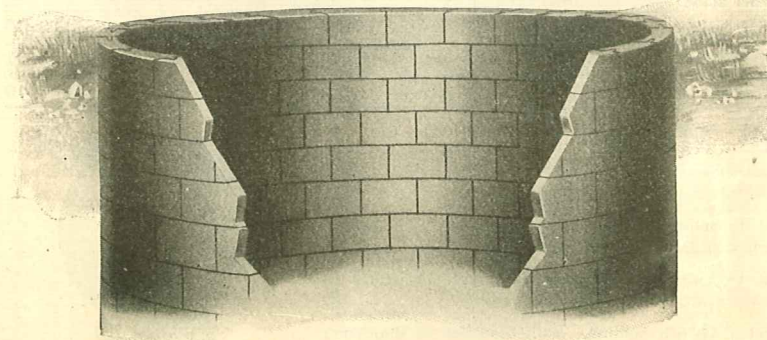
Triumph Well Curbing Mold

Makes an Everlasting Well at Small Cost.

The demand for curved blocks for making well curbing or casing, water troughs, cisterns, or any curved wall, is steadily increasing, and our Triumph Well Curbing Mold enables anyone to make up his own concrete blocks for this purpose. The mold is very simple and compact. It makes a block 3 1/2 inches thick, 8 inches high and from 17 1/4 inches to 20 1/2 inches long, depending on diameter of circle blocks are intended to make. As shown in the illustration, the ends of the blocks are made with a tongue and groove so each block will key into the next one, and when laid up with a cement mortar, consisting of one part cement and two parts sand, will make a waterproof wall. If you want to build a tank or trough to hold water it is advisable to use a waterproofing compound in the concrete or apply a coat of rich cement mortar to the wall after it is completed. In building a tank above ground it is advisable to make a groove in the top of each block and in this groove lay a length of No. 9 wire as reinforcement. The reinforcement should be fully embedded in mortar when laying the blocks. Every concrete block maker should have one or more of these molds to supply his customers with the necessary blocks for making well curbing, water troughs, cisterns and other curved walls. The mold is made in plain face design only and to make blocks that lay upon circles, 3, 4, 6 and 8 feet in diameter inside measure.



Curbing Mold.

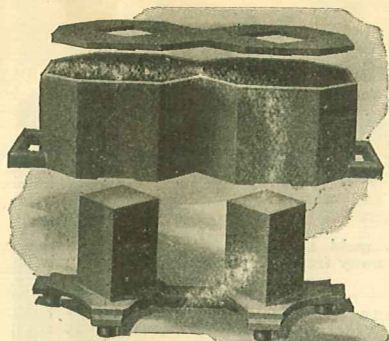


Showing Curbing Built In.

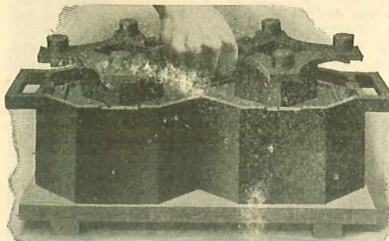
Be sure to order mold of proper diameter and state catalog number as given below.

PRICE LIST OF WELL CURBING MOLDS.

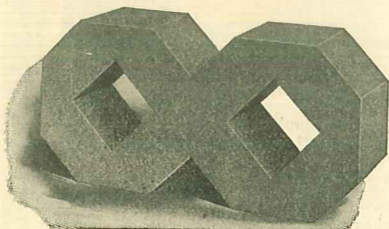
Catalog No.	Diameter of Well	Length of Block	Shipping Weight	Each
63B5879	3 feet	17 1/4 inches	50 pounds	\$10.55
63B5876	4 feet	18 inches	60 pounds	10.55
63B5877	6 feet	20 1/2 inches	75 pounds	10.60
63B5878	8 feet	17 1/4 inches	60 pounds	10.60



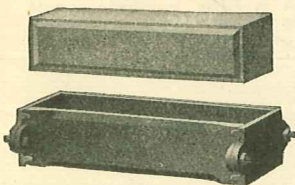
The Owl Lattice Block Mold complete with parts arranged in regular order to prepare mold for making a block. The pallet is dropped down on the cores and then outside mold placed on the offsets on the cores and it is ready to be filled. Block is made face down.



The mold turned over on a wood pallet and core being withdrawn. Note how iron pallet now forms a stripping plate which prevents damage to stone while pulling cores and outer casing. If desired block can be turned over on any smooth surface, the wood pallet being unnecessary unless you wish to carry finished blocks away from mold.



Block as Made in This Mold.



The Owl Lattice Block Mold

The Owl Lattice Block Mold makes an ornamental block that is suitable for many classes of ornamental work, such as enclosing the space under a porch, making porch or garden fences, cemetery fence, and for many other purposes which will suggest themselves when you use the mold.

The blocks made in this mold are 16 inches long, 8 inches high and 4 inches thick. By placing small blocks of wood under the pallet you can raise it up into the outside mold to make blocks 2 or 3 inches thick as desired.

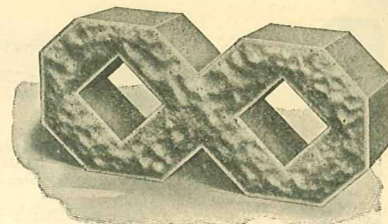
The illustrations at the left clearly show this outfit and method of operation.

For ornamental work we can furnish extra iron pallets in the following designs: Rock design, panel design and scroll design. Be sure to order and allow enough money for any extra ornamental pallets you may want; but one of each kind is required, which is removed as soon as block is turned over and mold withdrawn.

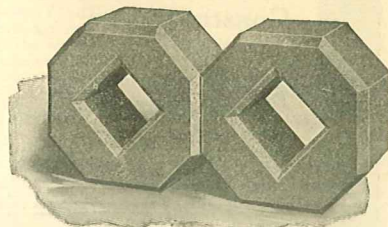
Price includes outside mold, cores, plain iron pallet or stripping plate, sample wood pallet and tamper.

63B5792—Owl Lattice Block Mold, complete. Shipping weight, 60 pounds.....\$12.15

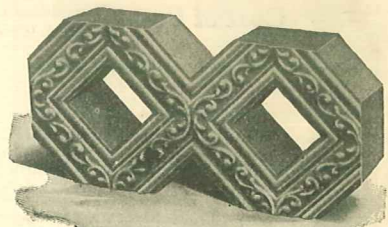
63B5793—Ornamental Pallet or Stripping Plate for lattice block mold. Shipping weight, 10 pounds.....\$3.00



Block Made With Rock Design Ornamental Pallet.



Block Made With Panel Design Ornamental Pallet.



Block Made With Scroll Design Ornamental Pallet.

Triumph Lattice Block Mold

This is a very simple mold, making blocks suitable for lattice or porch work; makes blocks 4 inches high, 5 inches wide and 16 inches long. Mold is made up of four parts held together with thumbscrews. Can be furnished in panel design, as shown, plain design or rock design. Please state which you want when you order, otherwise we send panel design. Shipping weight, 30 lbs.

63B5672—Triumph Lattice Block Mold.....\$5.55

Jardiniere or Flower Pot Molds

Easy to Make. Very Ornamental. Sell Readily.

The illustrations show the product of these new and original molds for making concrete jardiniere or flower pots. Every lover of flowers or small shrubs will want one or more of these jars for porch decoration. They can be made at small cost and will sell readily for from \$1.00 to \$1.25 each.

These molds are well made of best gray iron castings, well fitted and held together by simple locking devices which hold securely, yet are easily released. They are furnished with core and make jars of various sizes as given below and in designs only as listed.

Very pleasing results can be had by using white sand and white cement, cement coloring, mica spar crystals or crushed marble and granite with cement for making these jars. We recommend filling the lion head design with a fine facing mixture before making the body of the jar so that all the detail will be brought out. Made in five sizes and two designs as listed below. Cores and tampers shipped with each mold.

Jardiniere Molds.

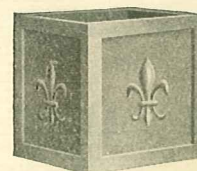
Fleur De Lis Design.

	Size	Shipping Wt., Lbs.	Each
63B5887	4 inches square, 4 inches deep.....	20	\$4.32
63B5888	6 inches square, 6 inches deep.....	25	6.50
63B5889	8 inches square, 8 inches deep.....	50	7.55

Lion Head Design.

63B5885	8 inches by 16 inches, 8 inches deep.....	70	\$10.80
63B5886	8 inches by 24 inches, 8 inches deep.....	90	15.25

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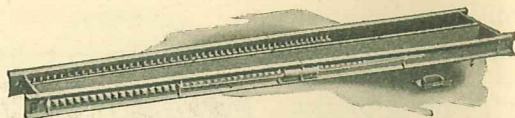


Fleur De Lis Design.

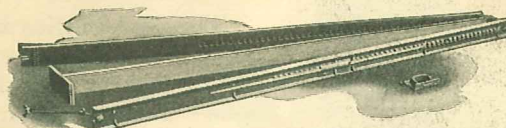


Lion Head Design.

Triumph Concrete Fence Post Molds



Illustrating our Double Mold clamped together ready to be filled with concrete. The small tool shown to the right is for forming the grooves into which the reinforcement is placed.



To release the post from this mold the thumb bolts are loosened and the sides of mold open away from the post as shown above.

The Triumph Fence Post Molds shown herewith form a simple means of making good concrete fence posts. Anyone can make perfect posts by following our simple directions, and farm owners particularly can make good use of these molds.

Operation The Triumph Post Mold can be removed from the post as soon as it is made, allowing the post to lie where it was made until it has become hard enough to move, which takes from twelve to twenty-four hours, depending on the weather, after which the posts are piled for curing, which requires from fifteen to twenty days.

Construction The Triumph Fence Post Molds are made up of two pieces of channel shape casting, securely bolted together, forming the sides of the post, and the ends are formed by small castings fitted in grooves. The upper portion of the mold makes a series of knobs or buttons on the post, which prevents the wire from slipping up or down. These knobs or buttons require but little cement to make them and, unlike grooves or holes in a post, do not weaken it. The mold is securely held together by two thumb bolts and can be opened or closed in an instant.

Reinforcement All concrete fence posts must be reinforced. For reinforcement you can use $\frac{3}{16}$ -inch iron rods, pieces of barbed wire or straight wire. For the convenience of our customers we list reinforcement below. The price given is as low as it is possible to quote for this material under existing conditions in the steel market and is subject to advance. We furnish a grooving block with each mold which enables you to groove a place in the concrete for the reinforcement. These grooves place the reinforcement the proper distance from the surface of the mold to provide the greatest strength and still have enough concrete around them to prevent rusting.

To Attach Fencing Any style of wire fencing can be attached to posts made on these molds by using the special wire tie furnished with each mold, as shown below.

Size We make the line post molds in one size only—to make a post 7 feet long, $3\frac{1}{4}$ inches thick, 5 inches wide at the bottom, tapering to $3\frac{1}{4}$ inches at the top. The large end makes a solid anchor when properly placed in the ground. The finished posts will weigh on an average about 75 pounds each.

Corner Posts The corner post mold measures 8 feet long and is made in the single style only. It makes a post $8\frac{1}{4}$ inches square at the top and is provided with an adjustable bottom plate to make bottom any size from $8\frac{1}{4} \times 9$ inches to $8\frac{1}{4} \times 14$ inches. These posts are especially adapted for corners, gates and ends of fences where the most strain comes.

Cost of Post A good line post is made of a mixture of one part cement to two parts sand and four parts gravel. To make 100 posts requires the following material:

Four barrels cement.
 $1\frac{1}{2}$ cubic yards sand.
 $2\frac{1}{4}$ cubic yards gravel.
 Labor, one man will make 100 posts a day.
 Reinforcement, four pieces to each post.

By using the prices you pay for material, you can easily figure the cost from the above. When using the double mold the labor cost is reduced about one-third. Concrete posts can be sold at a price that will make you a good margin of profit. But one mold for each man is all that you require, as the mold is removed from the post as soon as made.

Price List

63B5896—Single Line Post Mold, complete with grooving block and wire tie. Shipping wt., each, 50 lbs **\$14.00**

63B5900—Double Line Post Mold, complete with grooving block and wire tie. Shipping wt., each, 60 lbs. **\$18.00**

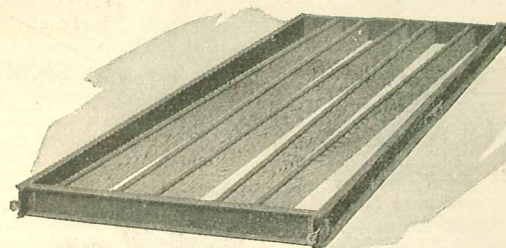
63B5899—Corner Post Mold, makes post 8 feet long, $8\frac{1}{4}$ inches square at top and any size from $8\frac{1}{4} \times 9$ inches to $8\frac{1}{4} \times 14$ inches at bottom. Shipping wt., each, 180 lbs. **\$34.95**

63B5897—Fence Post Reinforcement. Cut in 7-foot lengths and straightened, about 90 pieces to 100 pounds. **\$5.65**
 Per 100 pounds.....

The post our molds make.

The single mold.

Triumph Post Mold Gang.



63B5895—Triumph Post Mold Gang for six posts. Shipping weight, 140 pounds. **\$27.55**

We recommend this mold to to anyone who desires to make concrete fence posts in quantities. The mold is made similar to our Triumph molds described on the preceding page, except that all four sides of the post are plain. This because it would not be practical to make division boards to form the buttons on the post.

Sides, top and bottom of this mold are of well braced castings. The division boards are of wood reinforced with band iron. Posts can be made of semi-wet material and tamped, the mold being removed as soon as tamping is completed. This mold can also be used to make posts of wet or slush concrete, but this method would necessitate leaving the mold around the posts for from three to six hours. One man should make about 150 posts per day.

Size—This mold makes posts 7 feet long, $3\frac{1}{4}$ inches thick, 5 inches wide at bottom and $3\frac{1}{4}$ inches wide at top. Each gang is furnished with a special tool for placing the reinforcing wires and a wire tie as described below.

Method of Attaching Fence to Concrete Posts.

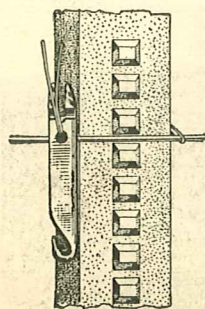


Figure 1.

First, take a piece of No. 12 or No. 14 wire long enough to go around the post twice. Bend this piece of wire in the form of a hairpin and hook it over a line wire of the fence. Then bring it around the post and let it extend out in front of the post over the fence wires on the other side. Insert both ends of the tie wire through the hole in the fence tool and from the back, sliding the tool to the fence wire as shown in Figure 1. Next turn the tool upward so the tie wire coming from around post will pass through the forked end and so the fence wire will rest in small groove at the base of the fork as shown in Figure 2.

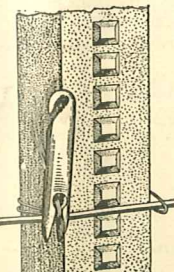


Figure 2.

Pull forward on the tool and twist it around the line wire so the tie wire will twist tightly on the fence wire and hold it perfectly tight against the post as shown in Figure 3.

This tool will enable you to pull the tie wire so tight that it will be embedded in the corners of a square post or in the fins formed by the joining of a round mold. One of these tools is included with every Triumph Post Mold without extra charge. Extra tools can be had if desired. Shipped from factory in CENTRAL OHIO.

63B5898—Triumph Fence Wire Tie. Shipping wt., 1 lb. **50c**

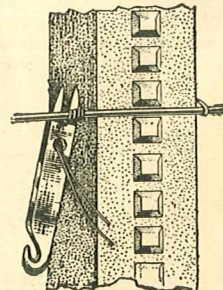


Figure 3.

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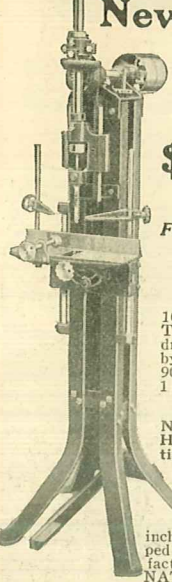
Quality Wood Working Machinery

THIRTY YEARS IN SUCCESSFUL USE.

Money Savers for Any Contractor or Shop Owner

Many original handy features on these machines make them most desirable and we sell them at less than **ONE-HALF THE PRICE** of the Heavy Expensive Machines Generally Offered

New Rapid



Upright Hollow Chisel Mortising and Boring Machine.

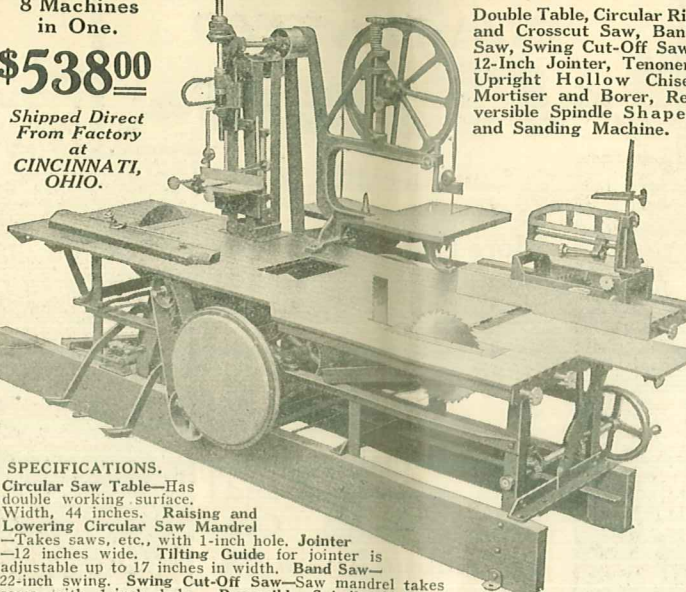
\$98⁰⁰

Shipped Direct From Factory at CINCINNATI, OHIO.

Shpg. wt., 250 lbs. Floor space, 1 foot 10 inches by 2 feet. Tight and loose drive pulleys, 5-inch by 3-inch face. Speed, 900 R. P. M. Power, 1 H.-P.

99M18735½ New Rapid Upright Hollow Chisel Mortising and Boring Machine, complete with one ½-inch hollow chisel and bit and one ¾-inch boring bit. Shipped direct from factory at CINCINNATI, OHIO. **\$98.00**

Planing Mill Special



8 Machines in One.

\$538⁰⁰

Shipped Direct From Factory at CINCINNATI, OHIO.

SPECIFICATIONS.
Circular Saw Table—Has double working surface. Width, 44 inches. Raising and Lowering Circular Saw Mandrel—Takes saws, etc., with 1-inch hole. Jointer—12 inches wide. Tilting Guide for jointer is adjustable up to 17 inches in width. Band Saw—22-inch swing. Swing Cut-Off Saw—Saw mandrel takes saws with 1-inch hole. Reversible Spindle Shaper—Takes cutters with ¾-inch hole. Upright Hollow Chisel Mortiser and Borer—Will take up to 22 inches. Crosscut Guide—Has angle adjustment of 45 degrees. Floor space, 4 feet 10 inches by 9 feet 6 inches. Tight and loose drive pulleys, 10x4-inch face. Speed, 550 R. P. M. Power, 5 to 7½ H.-P. Shipping weight, 1,900 pounds.
99M18685½—Planing Mill Special, complete with one 12-inch cut-off saw, one 12-inch rip saw, one 10-inch crosscut saw, one ¾-inch band saw and five belts. Shipped direct from factory at CINCINNATI, OHIO. **\$538.00**

Jewel

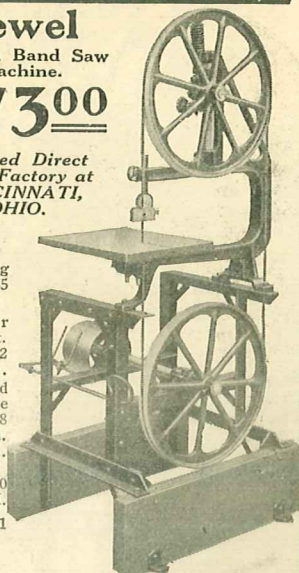
22-Inch Band Saw Machine.

\$73⁰⁰

Shipped Direct From Factory at CINCINNATI, OHIO.

Shipping weight, 385 pounds.

Floor space, 2 ft. 6 in. by 2 ft. 6 in. Tight and loose drive pulleys, 8 in. diam. by 3-in. face. Speed, 500 R. P. M. Power, 1 H.-P.



99M18660½—Jewel 22-Inch Band Saw Machine, complete with one ¾-in. band saw. Shipped direct from factory at CINCINNATI, OHIO. **\$73.00**

If you desire a more complete description of any machine shown on this page, write for Wood Working Machinery Catalog No. V528CM.

\$235⁰⁰

Shipped Direct From Factory at CINCINNATI, OHIO.



Four-In-One Circular Rip and Crosscut Saws, Band Saw, 12-Inch Jointer and Boring Machine.

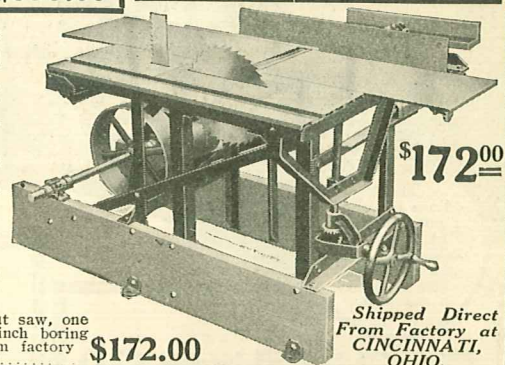
Shipping weight, 950 pounds. Floor space, 4 feet 4 inches by 6 feet 5 inches. Tight and loose drive pulley, 10 inches diameter by 4-inch face. Speed, 550 R. P. M. Power, 5 H.-P.

99M18670½—Four-In-One, complete with one 12-inch rip saw, one 10-inch crosscut saw, one ¾-inch band saw, one ¾-inch bit and one 4-inch and one 3-inch belt. Shipped direct from factory at CINCINNATI, OHIO. **\$235.00**

Old Reliable Circular Rip and Crosscut Saw, 12-Inch Jointer and Boring Machine.

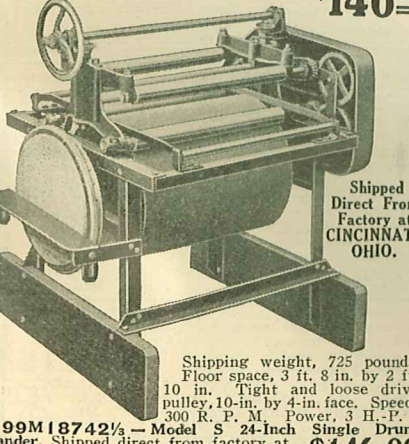
Shipping weight, 675 pounds. Floor space, 4 feet 4 inches by 5 feet 6 inches. Tight and loose pulley, 10x4-inch face. Speed, 550 R. P. M. Power, 3 to 5 H.-P.

99M18650½—Old Reliable, complete with one 12-inch rip saw, one 10-inch crosscut saw, one 4-inch belt and one ¾-inch boring bit. Shipped direct from factory at CINCINNATI, OHIO. **\$172.00**



Shipped Direct From Factory at CINCINNATI, OHIO.

Model S Self Feed Single Drum Sander. **\$146⁰⁰**



Shipped Direct From Factory at CINCINNATI, OHIO.

Shipping weight, 725 pounds. Floor space, 3 ft. 8 in. by 2 ft. 10 in. Tight and loose drive pulley, 10-in. by 4-in. face. Speed, 300 R. P. M. Power, 3 H.-P.

99M18742½—Model S 24-Inch Single Drum Sander. Shipped direct from factory at CINCINNATI, OHIO. **\$146.00**

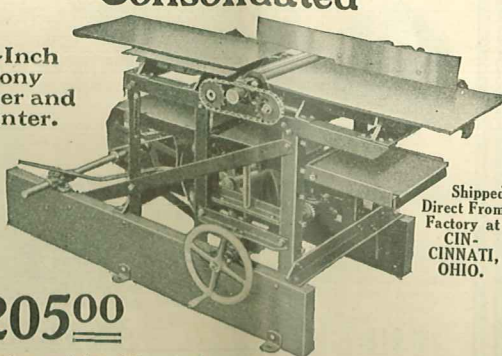
Consolidated

12-Inch Pony Planer and Jointer.

\$205⁰⁰

Shipping weight, 940 pounds. Floor space, 3 feet 4 inches by 6 feet. Tight and loose drive pulley, 10-inch by 4-inch face. Speed, 550 R. P. M. Power, 3 to 4 H.-P.

99M18725½—Consolidated 12-Inch Pony Planer and Jointer, complete with one 2-inch and one 4-inch belt. Shipped direct from factory in CINCINNATI, OHIO. **\$205.00**



Alert Swing Cut-Off Saw. **\$63⁰⁰**



Shipped Direct From Factory at CINCINNATI, OHIO.

Shipping weight, 340 pounds. Floor space, 2 feet 2 inches by 2 feet.

99M18695½—Alert Swing Cut-Off Saw, with one 12-inch cut-off saw and one 3-inch belt. Shipped direct from factory at CINCINNATI, OHIO. **\$63.00**

Guaranteed Roofing

New Low Prices

GUARANTEED

17 Years

Consider this vital fact:

More than one million homes are covered with Sears, Roebuck and Co.'s roofing!

The reason:

You get tried and proven quality, long term guarantee, and greatest value. Our enormous business proves it. You are assured of satisfaction.

NOTE:

Each roll 108 square feet, 8 square feet allowed for 2-inch lap. Will cover 100 square feet all in one piece.

Buy only roofing with tight lap joint. If slate or pebbles lay between the two layers of roofing the joints will loosen up and leak.

TWO INCH "WATER TIGHT" LAP JOINT

TWO INCH "WATER TIGHT" LAP JOINT

These lines are designed to make FIRE-CHIEF ROOFING look like wood shingles when on the roof.

Oriental and Fire-Chief are the best quality roofings. We guarantee them for 17 years.

Fire Chief Shingle 90 Roll Roofing Lbs.

Known for many years for highest quality and matchless value.

Fire-Chief Shingle Roll Roofing looks like wood shingles, painted red or green, but costs half as much as painted shingles and wears practically twice as long. **Guaranteed for 17 years.** Made of the best roofing felt, imported asphalt and red or green crushed slate. Your choice of color.

Beautiful shingle design consists of crushed slate firmly imbedded in the asphalt coating with lines of black asphalt to form the shingle design. Reliable roofing manufacturers claim that Fire-Chief is the best design on the market and the longest wearing roofing made. Resists fire. Excludes snow and water. Stands the tests of all climates. **Approved by National Board of Fire Underwriters.**

Complete with 1-inch large headed galvanized nails and cement. Weight, 90 pounds.

48G488-Red.

48G489-Sea Green.

Fire-Chief Roofing with 1 1/4-inch large headed galvanized nails and cement to lay over old shingles. Weight, 90 pounds.

48G167-Red.

48G172-Green.

\$3.00

Per Roll.

Shipped from CHICAGO, ILL., PHILADELPHIA, PA., YORK, PA., ALBANY, N. Y., SOUTHERN OHIO, SOUTHERN ILLINOIS, KANSAS CITY, MO., ATLANTA, GA., or ST. PAUL, MINN.

GUARANTEED

15 YRS.



85-Pound Slate Surfaced Roofing.

Without 2-Inch Watertight Lap Joint.

A good grade roofing felt, asphalt and crushed slate. A big value for the low price we quote, but Fire-Chief Shingle Roll Roofing or Oriental Slate Surfaced Roofing (illustrated and described on this page) are of a better quality, assuring you longer wear and greater satisfaction.

Complete with 1-inch large headed galvanized roofing nails and cement.

48G515-Red.

48G516-Green.

Per Roll **\$1.85**

Complete with 1 1/4-inch large headed galvanized roofing nails to lay over old shingles.

48G286-Red.

48G289-Green.

Per Roll **\$1.95**

Shipped from CHICAGO, ILL., PHILADELPHIA, PA., YORK, PA., SOUTHERN OHIO, ALBANY, N. Y., SOUTHERN ILLINOIS, NEW ORLEANS, LA., AT LANTA, GA., or KANSAS CITY, MO.

Oriental Slate Surfaced Roofing 88 Lbs.

Suitable for all kinds of buildings. Recommended for attractive appearance and long wear.

Guaranteed for 17 years. It is made of the best grade of heavy roofing felt, imported asphalt and genuine crushed slate. Extra heavy and durable. Furnished in red or green, your choice of color. Resists fire, and is water and snow proof. Good in any climate. Better than wood shingles. Can be economically laid over old shingles or on a new roof. Guaranteed to retain its color.

Approved by National Board of Fire Underwriters.

Oriental Roofing protects your home from fire, whereas sparks from a chimney may destroy wood shingles.

Oriental Slate Surfaced Roofing, complete with 1-inch large headed galvanized roofing nails and cement. Weight, 88 pounds.

48G163-Red.

48G162-Green.

Per Roll **\$2.05**

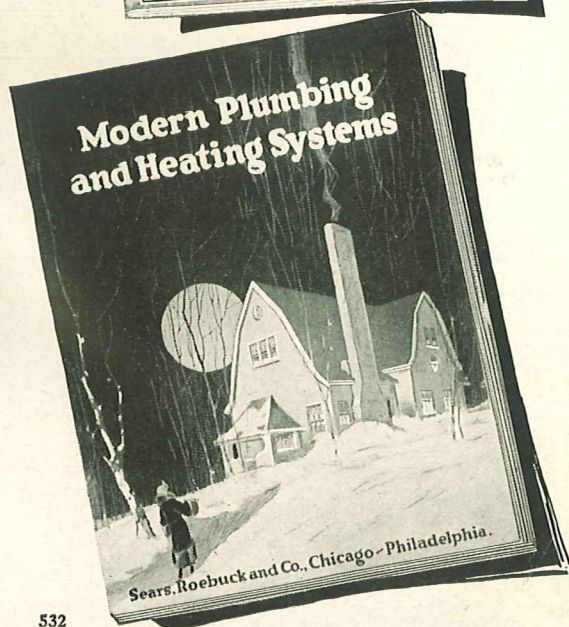
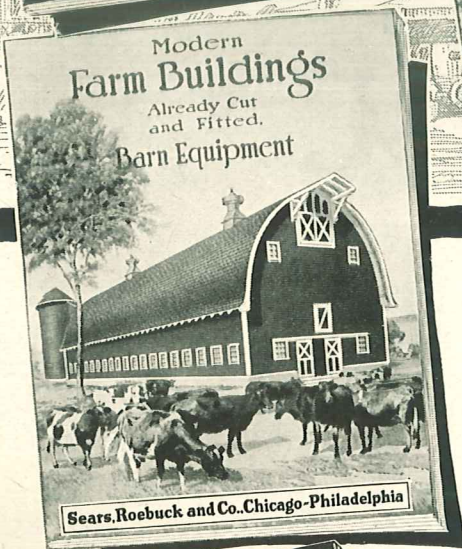
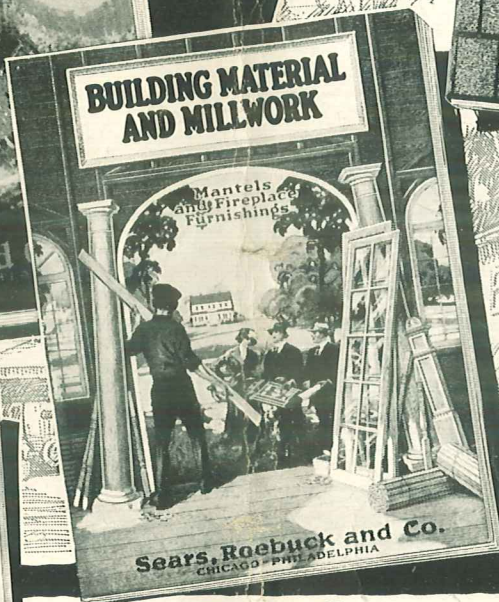
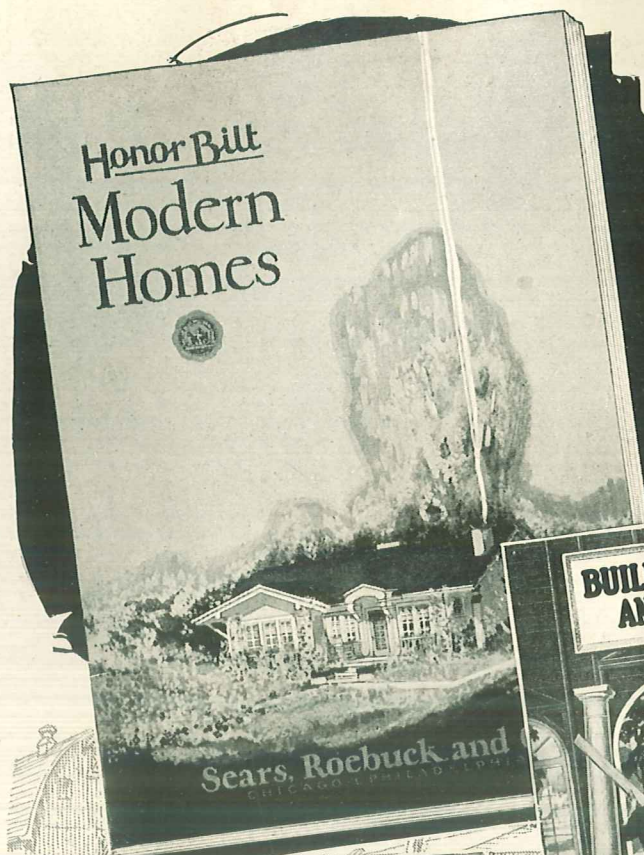
Complete with 1 1/4-inch large headed galvanized roofing nails and cement to lay over old shingles. Weight, 88 pounds.

48G479-Red.

48G476-Green.

Per Roll **\$2.15**

Shipped from CHICAGO, ILL., PHILADELPHIA, PA., ALBANY, N. Y., YORK, PA., SOUTHERN OHIO, KANSAS CITY, MO., ATLANTA, GA., SOUTHERN ILLINOIS, NEW ORLEANS, LA., or ST. PAUL, MINN.



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